NLS=8 GLOSSARY

Augmentation Research Center



22 NOV 75

Stanford Research Institute 333 Ravenswood Avenue Menlo Park, California 94025 Sorting also is an aid to searching ... and therefore it helps to make computer output more suitable for human consumption. In fact, a listing that has been sorted into alphabetic order often looks quite authoritative even when the associated numerical information has been incorrectly computed. -- Donald E. Knuth "The Art of Computer Programming" (1973)

Introduction

This list of terms was generated from the information available online in a file built to be read by an automatic question answering system (the "Help Command"). In generating this documentation goal has been to produce a true glossary, to be used for the most part as a dictionary. We imagine readers who are studying other NLS documentation, trying to recall what they have learned in classes or from co-workers, or are working online and want to supplement the Help command. NLS is a new medium with extensive new terminology. We explain terms peculiar to NLS, and in some cases explain terms familiar to some computer users but strange to the increasing number coming to NLS without computer background. It is possible to learn about NLS by browsing in this glossary, as it is possible to learn about English by browsing in a dictionary, but only in a somewhat haphazard way.

The source of the material and the small size of the vocabulary (in comparison to the number of words in a natural language) limited us in certain ways. One limitation is the size of loops. As in the case of any dictionary, definitions of terms lead to definitions of other terms which in the end lead back to the first term. The size of these loops has been taken as the measure of the power of a dictionary. Because of the limited size, the &SRI=ARC 21-NOV=75 19:38 22132 highly cross=referenced source material, and limitations of time, the loops are sometimes rather short in this glossary,

Those familiar with the hierarchical arrangements characteristic of NLS will understand that it was difficult to level our information out to form an alphabetic list. The location of command is a case in point. Should the command "Delete Word" be indexed under Word? under Delete? or under Base, since it is part of the Base Subsystem? In the end we alphabetized all commands under their first word, and added lists of commands under the names of the various subsystems. Because commands to Delete exist in several subsystems, it was necessary to add (BASE) after the reference to Delete to guide the reader in selecting among several entries,

A similar problem appears in the names given to variables that appear in only one or a few commands. For example in the "Show Directory" and "Copy Directory" commands a user may optionally choose to see several secondary facts about the file. The choices are called collectively DIROPT in the command syntax. Where should DIROPT appear in the glossary? Since DIROPT appears in the the syntax of several commands, it appears alphabetically under D.

Some descriptions have references such as "pointing: See pointing", Descriptions cited in this way will be found in alphabetic order (under P in the case of "pointing"). Unless otherwise noted, a command description refers to a command in the BASE subsystem.

Comparison of the content of definitions in the Glossary with those read online with the Help command will sometimes reveal differences. In most cases it is because the online version is more up=to=date.

This experiment in generating usable offline documentation from a source optimally formatted for online viewing will be repeated in the future. We welcome suggestions and corrections, Please let us know the forms and media best suited to provide the information you need to learn and use NLS.

&SRI-ARC 21-NOV-75 19:38 22132 DEFINITIONS AND CONVENTIONS IN COMMAND SYNTAX

Terms to be defined are in Newsgothic type, as are TNLS examples. Definitions are in Times Roman, the type face of the body of this introduction. Each commandword begins with a capital letter, and the rest is lower case. Words in all upper case are variables, that stand for certain alternatives which are defined either below or in the body of the glossary. Citations to other parts of the glossary are in slanted type. Paragraphs that are subordinate to higher=level definitions are indented and in smaller type.

Parentheses (....) bound noise words echoed by system; prompts are not shown.

/ means or

SUBSYSTEM = Base / Programs / Sendmail / Calculator / Useroptions (These are commandwords) STRING = Character / Word / Visible / Invisible / Number Link / Text 1 (These are commandwords) STRUCTURE = Statement / Group / Branch / Plex (These are commandwords) ADDRESS: a FILEADDRESS and/or an INFILEADDRESS ending with an OK (or just an OK in TNLS for prior location). FILEADDRESS if used must come first. Elements of an INFILEADDRESS, if more than one are used, must be separated by <SP>. DESTINATION: In TNLS: DESTINATION = ADDRESS. In DNLS: DESTINATION = BUG / ADDRESS when referring to Group or Text, two BUGS or two ADDRESSES are needed. SOURCE: IN TNLS: SOURCE = ADDRESS / OPTION TYPEIN In DNLS: SOURCE = BUG / ADDRESS / OPTION TYPEIN When referring to Group or Text, two BUGS or two ADDRESSES are needed. CONTENT: In TNLS: CONTENT = TYPEIN / OPTION ADDRESS In DNLS: CONTENT = BUG / TYPEIN / OPTION ADDRESS When refering to Group or Text, two BUGS or two ADDRESSES are needed. TYPEIN = a string of characters from the keyboard, ending with an OK. TYPEIN has a special form when a FILEADDRESS or Link or Ident is called for. (You can tell from the noise words.) OPTION = the <CTRL=U> character LEVEL=ADJUST: a lowercase d (for down) or one or more lowercase u's (for up), optionally terminated by a <SP> or DK; if you ignore the LEVEL-ADJUST and start typing the level will be the same.

VIEWSPECS:

Type a string of any of the viewspec codes, terminated by an OK, or just type an OK if you don't want to change the viewspecs. ANSWER: Type y for yes or n for no You may usually type OK here. The command will be immediately executed.

OK: CA / OKINSERT / OKREPEAT

CA: Command Accept: confirms a command or terminates a field within a command.

DNLS default special character: CA/<CTRL=D> TNLS default special character: CR/<CTRL=D>

OKINSERT: At the end of a command in Base subsystem only, executes the command and starts "Insert Statement" command, defaulting current location. Then you do: LEVEL-ADJUST CONTENT OK, INSERT mode continues until you type CD. In all other cases, OKINSERT has no special meaning; it is equivalent to Command Accept.

default special character: <CTRL-E>

OKREPEAT: At the end of any command, executes it and repeats it from the beginning, defaulting each command-word until reaching the first field not a commandword that you can specify, Then you take over the command, REPEAT mode continues until you type CD, Used elsewhere, OKINSERT has no special meaning; it is equivalent to Command Accept, DNLS default special character: <CTRL=B>

CD: Command Delete, It aborts a command immediately and will also take you out of INSERT or REPEAT mode, default special character: <CTRL=X> NLS=8 Glossary

A

- a Viewspec: show one level less: "Show one less level than was previously shown." This viewspec will change or modify viewspecs w and c (counting back from the deepest level), x and d (you won't see anything), e (one less than the level of the statement you are currently at) and b (each a cancels out one b).
- A Viewspec: level indenting on: "Indent each level more than the last level." The number of spaces each level is indented is usually 3, but you can specify it with the Useroptions command Printoptions Indenting. This viewspec changes viewspec B and Q. This is a default viewspec. See also: Level, Capital=B, Capital=Q, Printoptions (USEROPTIONS).

A=colon: A: ADDRESS: See address.

Accept Connect (from terminal number) (for) CONTENT OK: The command "Accept Connect (from terminal number)" allows someone at the terminal number you specify for CONTENT to control your job as if he were you. Use the TENEX WHERE command to learn the terminal (TTY) number.

TNLS example: BASE C: Accept C: Connect (from terminal number) T/[A]: 5(for) C: Output (Only) OK: BASE C:

access:

to files: see accessing.

to ARC: See entering.

accessing files: going to a file to read it or write on it. wherever an ADDRESS is prompted by A: you can go to a particular file whose FILEADDRESS you know--type it in. You can also use the Load File command to open a file for read or write access. By pointing to a link you can access the file it specifies. A record of the files you have been in during your current NLS session is remembered, and the past 10 files can be accessed with the Jump File Return command, or File Return ring for a maximum of 25 files. The file-return ring provides another method of accessing those files easily with the Jump File Return command, When you use the Create File command in NLS, the new file is immediately loaded for you. Access to files may be protected. 1a

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1c

1d

1d1

1e

1e1

1e2

1f

	Load File command in Base: See Load,	1 f 1
)	Jump to Link command: See Jump Link,	1£2
	file=return ring: See Return,	1£3
	privacy provisions: See privacy,	1f.4
	accesslist: See Set NLS Private.	1g
	account: an assigned number or string to which your work is charged, You accept a default account number by responding with a carriage return when "(ACCOUNT)" is requested during the login process,	1h
	accumulator: Accumulators contain a number representing a calculated value such as a total. You may keep several running totals in separate accumulators. The Clear command clears an accumulator. The Use command specifies an accumulator other than your current accumulator. The Insert command inserts the value in the accumulator at the DESTINATION you specify. The Replace command replaces the number at the DESTINATION you specify with the value in the accumulator. The Evaluate command allows you to use the value in an accumulator by typing that accumulator's number preceded by a number sign thus: #1.	11
	The Calculator Use command: See use (CALCULATOR),	111
)	The Calculator Insert command: See insert (CALCULATOR),	112
	The Calculator Replace command: See replace (CALCULATOR),	113
	The Calculator Evaluate command: See evaluate (CALCULATOR),	114
	Add CONTENT OK: The Calculator subsystem command "Add" adds the number you specify for CONTENT to the accumulator. Then the accumulated total is ready for the next operation. See also: operators, accumulator, CONTENT, OK.	1j
	ADDRESS: prompted by A, asks you to specify a point in a file. It can be a sequence (ending with your CA) of one or more elements separated by spaces. Each element moves you to a new position relative to your prior position. If any of the elements are incorrect, the entire address fails. In TNLS, you can specify your current location by giving your CA when prompted for an ADDRESS. A link is an ADDRESS written in a file. In appropriate commands, you can point to the link instead of writing out the address. See also: pointing, INFILEADDRESS.	1k
	FILEADDRESS: SITE, DIRECTORY, FILENAME, altmode, escape. See FILEADDRESS.	1ĸ1
)	addressing: See pointing,	11

AHI: Acronym for Augmentation of Human Intellect, a former name for ARC.	1 m
AKW: Augmented Knowledge Workshop.	1n
allocation: file space allocation: the fixed amount of disk pages for each directory. When there are not enough pages, the message: "File space allocation exceeded" will appear. At this time, the user must Trim, or Delete, and Expunge files.	10
Showing your disk status: See show disk (BASE),	101
expunging: See Expunge.	102
alpha=numeric: See character.	1p
alphanumeric: See character.	19
alt: See esc.	1 r
alternatives: when it is possible to do one of several things for a specific part of a command. In prompts, alternatives are always separated by slashes (/). For example, when you use the command Update File, you are prompted with OK/C: This shows you have two alternative commands available to you. Do not confuse alternatives with options. Options are parts of a command that you must type < <ctrl=u> to use.</ctrl=u>	15
altmode: See <esc>.</esc>	11
Ampersand: s: a character used for various special functions:	10
setting the distribution of journal items for groups: See restricted (SENDMAIL).	111
using an externalname in an ADDRESS: See externalname,	1u2
address files on filereturn rings changed to .fr: See fr.	1 u 3
Anglebrackets:	1 v
to delimit links: See link,	1 v 1
typing the key "<" shows your previous subsystems: See lessthan,	1 v 2
typing the key ">" shows your current subsystem: See greaterthan,	1 v 3
to represent invisible characters: See Invisible,	1 v 4

ANSWER: The part of a command when NLS wants a yes or no answer. Type a "y" or an OK for "yes" or an "n" for "no." "Yes" proceeds

A

Α

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1 X

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1y1

1Z

1a0

1aa

through the command; "no" cycles you back through part of the command. If prompting is on NLS prompts you "Y/N: ".

Anticipatory: a recognition mode where each commandword will be completed after you type enough letters to uniquely define it. You may NOT type more than the minimum number of letters, since the commandword will have been recognized and the extra characters will go into the next field. Example: "Se" is enough to recognize the command Set. If you type "Set, " the "t" would be read as the next part of the command. The command would be interpreted as Set TENEX.

Append Statement (at) SOURCE (to) DESTINATION (join with) CONTENT OK: The command "Append" attaches one statement to another. The appended statement is added to the end of the receiving statement. You may only append statements. Any substructure under the statement to be appended will appear before any substructure under the receiving statement. The characters you specify to "join with" for CONTENT will be inserted between the two statements (if you're in TNLS and don't want anything inserted, just give a Command Accept for CONTENT; for DNLS use <CTRL=N>). After execution you are at the last character of the receiving statement (the character preceding the appended material).

TNLS example: BASE C: Append C: Statement (at) A/[T]: 1b11(to) A: 1b10(join with) T/[A]: and furthermore BASE C:

APR: Acronym for the Arithmetic Processor of the PDP=10,

ARC: acronym for Augmentation Research Center: ARC is a laboratory within SRI located at 333 Ravenswood Avenue, Menlo Park Calif., 94025 (415) 326-6200 Extension 3660. See also: Augmentation.

Architect: The person assigned to Augmented Knowledge (AKW) Workshop user communities responsible for matching the tools of the AKW with the needs of that user community.

Archive File CONTENT [(opt:)ARCHIVEOPT] OK: The command "Archive File" permits you to store files on tape to save disk space, with this command, you can mark the file you specify for CONTENT to be archived tonight or never to be archived. Retrieval takes 15 minutes to half an hour. Files unread for a few weeks are archived automatically. Check with your computer's operator to determine the exact date.

ARCHIVEOPT =

Delete (after archiving Finished?) ANSWER: The Archive File command option "Delete" undoes the Prevent option. This is the default case. Another ARCHIVEOPT is expected if you type "n" for ANSWER.

Prevent (deletion after archiving Finished?) ANSWER: The Archive

1ab1

1ab

File command option "Prevent" will mark the file you specified to be archived but leave it online after it is archived. This command will not affect a file that has already been archived or that has just been retrieved from archive. You must create a new version for this command to have effect. Another ARCHIVEOPT is expected if you type "n" for ANSWER.

Not (allowed Finished?) ANSWER: The Archive File command option "Not" will prevent the file you specified from being copied onto tape if it is not read after several weeks. This command will not affect a file that has already been archived or that has just been retrieved from archive. You must create a new version for this command to have effect. Another ARCHIVEOPT is expected if you type "n" for ANSWER.

Deferred (Finished?) ANSWER: The Archive File command option "Deferred" will mark the file you specify for CONTENT to be copied onto tape if it is not read after Several weeks. Another ARCHIVEOPT is expected if you type "n" for ANSWER.

Immediate (Finished?) ANSWER: The Archive File command option "Immediate" will mark the file you specify for CONTENT to be copied onto tape tonight. Another ARCHIVEOPT is expected if you type "n" for ANSWER.

Reset (request status Finished?) ANSWER: The Archive File command option "Reset" will mark the file to be archived and deleted if it is not read for several weeks.

Archived file: a file that has been copied off of the disk onto tape via the Archive system. 1ac

Retrieve command: See Retrieve. 1ac1 Archive command: See Archive. 1ac2

archiving=commands:

Archive File: See Archive. 1ad1 Reset Archive (request for file): See Reset archive. 1ad2 Undelete: See Undelete. 1ad3

arithmetic operations: The calculator works on the value in the current accumulator. An arithmetic operation requires as input an operator (+, =, x, or /) followed by a signed or unsigned number or an accumulator designated with the Use command. The number may be entered directly from the keyboard or indirectly as a simple arithmetic expression (e.g.: 1+5=6/15), or by a BUG or ADDRESS. If you omit the operator, the system adds the number to the accumulator, See also: accumulator, Use, BUG, ADDRESS,



A

1ab2

1ab3

1ab4

1ab5

1ab6

1ad

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input is handled as follows: See Input,	1ae1
numbers recognizable to the Calculator: See Numbers,	1ae2
expressions: arithmetic expressions: See Evaluate,	1ae3
Arithmetic=Processor: The central processing unit of the PDP=10	0, 1af
ARPA: Acronym for the Advanced Research Projects Agency of the Department of Defense. It is also called DARPA which stands fo Defense Advanced Research Projects Agency,	or lag
ARPANET: Official acronym for the ARPA Computer Network,	1ah
Server computer: See Server,	1ah1
User computer: See User.	1ah2
ARPA: Acronym for the Advanced Research Projects See Al	RPA, 1ah3
Packet: strings of bits bounded by routing See Packet,	1ab4
Subnet: The array of IMPs, TIPs and communication See Subnet,	lah5
asterisks: See Stars.	1ai
Attach Subsystem SUBSYSTEM OK: The Programs' subsystem command "Attach" makes the SUBSYSTEM you specify available to you. Ber you can attach, the program must be loaded. Attaching is done automatically when you load a program formatted to run as a subsystem. See loading (PROGRAMS), Detach, Append.	fore 1aj
subsystems already loaded but not usually attached: See Attachable,	1aj1
TNLS example: PROG C: Attach C: Subsystem C: Calculator OK: PROG C:	1aj2
Attachable subsystems already loaded: Use the programs subsystem command "Attach Subsystem" to make one of these subsystems avai if it is not already. If you want a userprogram or subsystem a automatically available to you when you enter NLS, use the Useroptions subsystem command "Include",	em ilable always 1ak
Supervisor: See Universal,	1ak1
Syntax (generator): This subsystem allows you to generate 15 of NLS command syntax, Use programs subsystem's Attach comm to make it available, See also: Attach, Syntax,	ists nand 1ak2

1ak8

1a1

1am

1am1

1ao

Base: See Base,	1ak3
Sendmail: See Sendmail.	1ak4
Useroptions: See Useroptions,	1ak5
Calculator: See Calculator,	1ak6
Programs: See Programs,	1ak7
xxx: (for wheels and Operators only, not docu	mented here) See

Augmentation: a term to describe extension, improvement, or amplification of human intellectual and organizational capabilities by means of close interaction with computer aids and by use of special procedural and organization techniques designed to support and exploit this interaction, For Augmentation Reserach Center, see also: ARC.

Author: The Author of a document or message distributed via the sendmail subsystem is usually specified by the IDENT of the person logged in to distribute the mail. If you use "Interrogate" the author will be you unless you specify otherwise. Other IDENTs can be substituted or added with Sendmail's Authors command. After you have mailed an item that you authored, a citation to it will appear in your INITIAL file under a branch with the STATEMENTNAME author. This is your automatic bibliography of all the items you "published" in the Journal via the Sendmail subsystem.

Sendmail's authors command: See authors (SENDMAIL).

Authors CONTENT OK: The sendmail subsystem command "Authors" lets you name the author(s) of a Sendmail item. If you don't use this command, the ident under which you are logged in will be the author. Specify the IDENTS of the author(s) of the item for CONTENT. 1an

Sendmail's authors command: See authors (SENDMAIL).

XXX.

B

В

b Viewspec: show one level more: "Show one more level than previously specified." This code is often combined with codes x, d, and e; each b in the string adds one more level. Each Viewspec b cancels out one Viewspec a.

B Viewspec: level indenting off: "Don't indent the levels; print all statements at left margin." This turns off viewspec A or Q, See also: Level, Capital=A, Capital=B.

B=colon: B: BUG: See Bug.

back: the statement immediately preceding the statement where you are regardless of level or of source. In the illustration, 1b3 is back from statement 2. Next is the opposite of back. Typing the Uparrow (*) key will print the statement that is back from where you are. See also: illustration.

backarrow: _: In TNLS backarrow _ usually appears when <CTRL=W> has been hit to indicate backspaced word (BW). See also: help, BC.

backend: part of a software system that performs functions you specify during your interactions with a frontend system.

backslash: \: prints the statement you are in: Typing the key \ prints the entire statement you are in.. You may place the backslash among the elements in an ADDRESS. After you terminate the ADDRESS, you will see printed the entire statement pointed to by the element preceeding the backslash in the address. In TNLS at the herald of a subsystem, the entire statement you are in prints immediately when backslash is typed. COMPARE address, slash, period.

TNLS example: BASE C: \ 2d Dolphins are very intelligent mammals, BASE C:

Backspace (in commands): erases parts of your command. You can backspace single characters and words you have typed in, and you can backspace previous commandwords and operands. Backspace all of the command with CD. You cannot backspace the effect of an editing command after it has been executed except by deleting all of the modifications since your last update. (You can copy things from an old version of a file if it still has what you want.) Define your own backspace control characters with the Control command in the Useroptions subsystem. See also: control (USEROPTIONS), resetting. 2g

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2

2a

2b

2c

2d

2e

2f

2h

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character: Backspace Character: (BC) See Character,	2h1
word: Backspace Word: (BW) See Word,	2h2
Commands: backspacing at a prompt. See Commands.	2h3
BASE subsystem: The BASE subsystem is the major subsystem of NLS. It has commands that allow you to name, read, and write information online and output it to hardcopy. When you enter NLS, you begin in the BASE subsystem.	21
How to use the BASE subsystem: See how,	211
commands in the BASE subsystem: See also: Command, HOW, SUBSYSTEM,	212
systems=commands: See Universal,	212a
Insert: add, duplicate, create information. See Insert.	212b
Show: see the status of special things, See Show,	212c
Set: See Set,	212d
Reset: See Reset.	212e
modifying=commands: Replace, Copy, Transpose, etc. See modifying=commands.	212f
viewing=commands: jumping, printing, reading, etc. see Viewing=commands.	212g
file=handling: See file=handling.	212h
archiving=commands: See archiving=commands.	2121
terminal=commands: See terminal=commands.	212j
display-commands only: See display-commands,	212k
recording, marking characters: See recording,	2121
BBN: Bolt Beranek and Newman Inc. 50 Moulton St., Cambridge, Mass. 021388 A commercial research and development organization under contract to ARPA for services to the ARPA Network, and under other contracts that lead to frequent interaction with ARC. BBN is responsible for the development of TENEX.	
	2j
BC: Backspace Character: See Character.	2k

Bells: If the system rings the bell on your terminal (or prints "ding-a-ling" on terminals that lack bells) either someone is trying

~ ~ ~ ~

B

to connect (or link) to you, or you have asked the system to complete a command before giving it enough information, or you have mistyped a command character. Usually you can go on by typing the next logical character, or <CTRL=A> and the next character. See also: connect. 21 binding: 2m hardcopy binding: ask FEEDBACK for information specific to you about binding documents. 2m1 Binding Precedence: Order of Operator Execution: The order of performing individual operations within an equation is determined by the heirarchy of operator execution (or binding precedence) and the use of parentheses. Operations of the same heirarchy are performed from left to right in an expression. Operations in parentheses are performed before operations not in parentheses. The order of execution of operators (from first to last) is as follows: 2m2unary =, unary +: minus or plus sign in front of a number not addition or subtraction. 2m2a.A Arithmetic AND: a . A b = bit pattern which has ones wherever both a and b had ones, and zero elsewhere. 2m2b .V. . X Arithmetic OR: a . V b = bit pattern which has 1's wherever either an a or b had a 1 and 0 elsewhere. a . X b = bit pattern which has 1's wherever either an a had a 1 and b had a 0, or a had a 0 and b had a 1, and 0 2m2c elsewhere. *, /, MOD (multiplication, dvision, remainder): multiplication a MOD b gives the remainder of a / b. 2m2d +, =: addition, subtraction. 2m2e relational tests (e.g., >=, <=, >, <, =, #, IN, OUT) 2m2f NOT Relational tests (e.g., NOT >) 2m2g NOT. 2m2h AND. 2m21 OR. 2m2j BLAP \blap\n[bla=bla=bla] 1a: appropriate data, b: information specified by context, c: redundant data not worth verbalizing in this context, 2: bullshit. 2n Bootstrapping: A name for the research strategy of the ARC. By "bootstrapping" we mean taking advantage of the feedback in

recursive development of systems. That is, we try to test ways of augmenting intelligence by their usefulness in developing new systems to augment intelligence, through the use of the new system features by (mainly) the developers of the system. 20 bracket: 2p Angle brackets: See anglebrackets. 2p1 Square brackets in Content=analyzer Patterns: See 2p2 Square=brackets. Branch: a statement plus all its substatements with all of their substatements, and so on to the end. In the illustration, the branch defined (and addressed) by statement 1 consists of 1, 1a, 1b, 1b1, 1b2, 1b3; branch 3c consists of 3c, 3c1, 3c1a; branch 2 consists of statement 2. Branch 0, (the branch defined by the origin statement) in any file, consists of the entire file. 2q end: See End, Statement. 291 illustration of file structure: See Illustration. 2q2 Branch (at) SOURCE OK: The Sendmail subsystem command "Branch" allows you to send an NLS branch. Specify the Branch to be mailed as the SOURCE. VIEWSPECS do not matter. 21 BRANCHNAME: !statementname (preceded by exclamation !): an address element that restricts the search for a statementname to the branch whose source is the statement where you are (the location pointed to by the previous element in a multiple element address). The statementname of the source of your branch is the first statement tested in the search. You are placed at the first character of the appropriately named statement. For example, typing: pigs Ichauvinist would take you to the statement named chauvinist in the branch named pigs. 25 Break Statement (at) DESTINATION LEVEL-ADJUST OK: The command "Break" divides one statement into two statements. It will break immediately after the next visible following the DESTINATION you point to. You may specify the level of the second statement relative to the first one. 2t TNLS example: BASE C: Break C: Statement at A: jackal . L: d BASE C: 2t1 Effects: The second statement will begin with the next visible following the one you specified in the command. The invisible which was between the two visibles will disappear. If you want the second statement to be at the same level as the first

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2W

statement, just give a Command Accept for LEVEL-ADJUST. After execution you are at the first character of the second statement. 2t2

buffers: the computer memory space available for you to add programs. Loading a program that requires more program buffer space than you have, should automatically increase your program buffer space but will not delete it when you delete the program. You can see how much program space you are currently using with the Programs' Show Status command. You can control it using Programs' Set Buffer (space) command. Your user programs share buffer space with files you are using. Increasing the size of your program buffer space decreases the amount of space available for your files with a possible slowdown in response. 100 pages are available total.

Programs' Show Status command: See Show (PROGRAMS),2u1Programs' Set Buffer size command: See Set Buffer (PROGRAMS),2u2Programs' Reset Buffer size command: See Reset (PROGRAMS),2u3

bug:

Report something that does not work as documented. See reporting, 2v1 A DNLS addressing feature (prompted by B). 2v2

BUG: To BUG in DNLS: To bug (prompted by B in DNLS) means to point to something on your screen. To BUG something, hold down on the rightmost button of the mouse until the traveling mark on the screen (the cursor) is positioned under the place you wish to point to. Then let up on the button. A bugmark (such as a blot-out, circle, underline, or inversion of a character on your screen) will indicate which character has been marked. The cursor is the traveling mark on the DNLS screen which you control with the hand-held mouse. See also: MOUSE.

buttons: See Mouse,2xBW: Backspace Word: See Word,2y





C

c Viewspec: show all levels: "Show all levels." Example: if you were previously looking at all lines of 2 levels only, viewspecs string ct would show you one line of all levels. This code releases any previous level truncation.

C Viewspec: show statement names: "Show statement names." Statement names are shown enclosed in name delimiters at the beginning of named statements. Viewspec D turns off statement names. This is a default viewspec. See also: Statementname, Capital=D.

C=colon: C: Commandword: a prompt in NLS that asks for a command word. If prompting is on, you will see a "C: ". Command words, normally a verb or a noun, tell NLS what to do. If the system prints a questionmark (in DNLS), or you hear a bell (in TNLS), you have typed a character that is not part of a command word that is possible at that point. See also: verb=nominal, prompts.

CA: Command Accept: The key you type to carry out a command and make NLS ready for the next command to be specified. This is the key most often used when prompted by "OK: ". The control character for CA is <CTRL=D> and by default in TNLS <CR> (carriage return) acts as CA. The right=most button on the mouse also specifies command accept. See also: OKINSERT. OKREPEAT, CD.

Making some other key work like <CTRL=D>: See control (USEROPTIONS).

CA is also used for content-analyzer filename extensions: See CA (PROGRAMS).

CA=colon: CA: Command Accept <CTRL=D>: See CA.

.CA; content-analyzer Program: A filename with this extension points to a compiled Li0 content-analyzer program. The Load Program command in the Programs subsystem will place it in your buffer and automatically institute it as your content-analyzer replacing any other that might be there. See Content-analyzer.



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will appear. All work is held in a special Calculator file created for you. You may keep several running totals in up to ten accumulators and enter simple arithmetic expressions as if they were 39 numbers. file: Calculator file: See File. 301 arithmetic operations: See Arithmetic. 392 commands in the Calculator: 3q3 Add CONTENT OK: See Add (CALCULATOR). 303a Clear: See Clear (CALCULATOR). 393b Divide CONTENT OK: See Divide (CALCULATOR). 3930 Execute (command in) SUBSYSTEM: See Execute. 3g3d Evaluate CONTENT OPERATOR OK: See Evaluate (CALCULATOR). 3q3e Format: See Format (CALCULATOR). 393f Goto (subsystem) SUBSYSTEM OK: See Goto. 3939 Insert (accum following) STRING/STRUCTURE: See Insert (CALCULATOR). 3g3h Multiply CONTENT OK: see Multiply (CALCULATOR). 3931 NUM: See NUM (CALCULATOR). 3g3j OKREPEAT <CTRL-B>: See OKREPEAT. 3a3k Quit: See quit. 3931 Replace STRING/STRUCTURE (at) DESTINATION (by accumulator) OK: See Replace (CALCULATOR). 3q3m Show: See Show (CALCULATOR). 3g3n SUBTRACT CONTENT OK: See Subtract (CALCULATOR). 3030 Total OK: See Total (CALCULATOR). 3g3p Use: See Use (CALCULATOR). 3g3g Write (new) File CONTENT OK: See Write (CALCULATOR). 3q3r X: X command: See Multiply. 3935 star command: *: See Multiply. 3a3t



3q3u

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minus command: -:See Subtract.393vslash command: /:See Divide.3g3wsemicolon command: ;:See Semicolon.3g3x

Capital=A viewspec: level indenting on: "Indent each level more than the last level," The number of spaces each level is indented is usually 3, but you can specify it with the Useroptions command Printoptions Indenting. This viewspec changes viewspec B and Q. This is a default viewspec, See also: Level, Capital=B, Capital=Q, Printoptions (USEROPTIONS).

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Capital=B viewspec: level indenting off: "Don't indent the levels; print all statements at left margin." This turns off viewspec A or O. See also: Level, Capital=A, B Viewspec.

Capital=C viewspec: show statement names: "Show statement names." Statement names are shown enclosed in name delimiters at the beginning of named statements. Viewspec D turns off statement names. This is a default viewspec. See also: Statementname, Capital=D.

Capital-D viewspec: don't show statement names: "Don't show statement names." If the first word of any statement is enclosed in the name delimiters defined for that statement, it will not be shown when the statement is output or viewed. To show statement names, use Viewspec C. See also: Statementname, Capital-C.

Capital=E viewspec: .paginate when printing (TNLS only): "Paginate when printing," TNLS will format your text into pages==numbered, separated by a cutting line consisting of ==="s, and with margins==when printing at the terminal via any Print command. This is a default viewspec. See also: Capital=F.

Capital=F viewspec: TNLS: no paging/DNLS: recreate display: TNLS output by Print commands at your terminal will not be separated by pages. To turn pagination on, use Viewspec E. See also: Paginate, print, Capital=E. In DNLS use capital=F to be sure your screen recreates. See also: f.

Capital=G viewspec: statement numbers/SIDs right: "Place statement identification at the right margin." If viewspec m is on, and you turn G on, whichever type of identification is currently on (viewspec I==SIDs or J==statement numbers) will appear at the right margin after each statement. Viewspec H turns G off and shows identification at the left of statements. Example: the string mGJ will show statement numbers at the right margin. See also: statementnumber, SIDs, m, Capital=I, Capital=J, Capital=H.

Capital=H viewspec: statement numbers/SIDs left: "Place statement identification at the left of each statement," This viewspec takes effect when viewspec m is on. Whichever type of identification is currently on (I==SIDs or J==statement numbers) will appear at the 3j

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beginning of each statement. Example: if you have SIDs on at the right and want to change to statement numbers at the left, use the string HJ. This is a default viewspec. See also: Statementnumber, SIDs, m, Capital-I, Capital-J, Capital-G.

Capital=I viewspec: show SIDs, not statement numbers: "Use SIDs for statement identification," If viewspec m is on, turning I on will show each statement's SID. Viewspec J shows statement numbers instead. The viewspecs G (right margin) and H (left of statement) determine where the statement numbers will appear. Example: the string mIG will make SIDs appear at the right margin after each statement. See also: Statementnumber, SID, m, Capital=J, Capital=H, Capital=G.

Capital=J viewspec: show statement numbers, not SIDs: "Use statement numbers for statement identification." This viewspec takes effect when viewspec m is on. It is also used to change I (show SIDs). The viewspecs G (right margin) and H (left of statement) determine where the statement numbers will appear. Example: if you have SIDs on at the right and want to change to statement numbers at the left, use the string HJ. This is a default viewspec. See also: Statementnumber, SID, m, Capital=I, Capital=H, Capital=G.

Capital=K viewspec: statement signatures on: "Show statement signatures after each statement." Viewspec L suppresses statement signatures; K switches them on. Statement signatures contain the ident of the person who last edited that statement and the date and time of the last edit. See also: IDENT, Capital=L.

Capital=L viewspec: statement signatures off: "Don't show statement signatures." L switches off K (show statement signatures). This is a default viewspec. See also: Statement, Signatures, Capital=K.

Capital=O viewspec: user sequence generator on: "Turn on user-written sequence generator," - Viewspec P employs the system's standard sequence generator in lining up statements for output. It is possible (but only knowing advanced L10 programming) to write your own sequence generator program. Viewspec O, if turned on, would then use yours instead of the standard one. See also: Sequence, Capital=P.

Capital=P viewspec: user sequence generator off: "Do not use user=written sequence generator program," This viewspec returns control to the system's standard sequence generator in lining up statements for output. Viewspec O switches to a user=written sequence generator program (writing one requires knowing advanced L10 programming). This is a default viewspec. See also: sequence, Capital=O.



carriagereturn: See cr.

GLOSSARY

CASEMODE: Upper, Lower, or First (letter upper): "Upper" sets all alphabetic characters to upper case. "Lower" sets all alphabetic characters to lower case. "First (letter upper)" sets the first 30

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alphabetic character only of all words to uppercase. [Side-effect: if you Force Text in first letter upper and the text starts in the middle of a word, the first character of the text (in the word it begins in) will be capitalized.] See also: Word.	3 w
catalogs and indexes: online and offline sources for finding items recorded in the NLS journal and XDOC collections. There are three kinds of Journal indexes. Author, Number, and Title-word. Jump (to) Link <userguides, locator,=""> to access the indexes.</userguides,>	3 x
categories of command lists: The BASE subsystem is the subsystem in which you are placed when you enter NLS and which has many capabilities such as File handling, viewing, and printing. Universal commands are commands available in most subsystems. Any of the other subsystems listed below are available via the Goto Subsystem command in all subsystems. See also: SUBSYSTEM.	3у
Universal (supervisor) subsystem: See Universal.	3y1
Base: See Commands (BASE),	3¥2
Help: See Commands,	3 ¥ 3
questionmark (?): See Questionmark,	3y3a
Identification: See identification,	3y4
Sendmail: See Commands (SENDMAIL).	3y5
insert journal submission form (Base command): See insert sendmailform.	3y5a
Programs: See Commands (PROGRAMS),	3¥6
Useroptions: See useroptions,	3¥7
Calculator: See calculator.	3y8
CD: Command Delete: The key you type to abort a command at any time before the final confirm. Typing CD leaves you ready to specify another command. The control character for CD is <ctrl=x>, and by default in TNLS acts as CD. The middle button on the mouse also specifies command delete. You can make another character stand for CD by using the Control Character command in the Useroptions subsystem. See also: Backspace, Ctrl=character, Resetting.</ctrl=x>	3z
centerdot: changed to OKREPEAT: See OKREPEAT,	3a0
changing: ways of changing viewspecs: altering how a file will be presented. You can change the viewspec codes in effect in the following ways: using the BASE subsystem's Set Viewspecs command to enter new codes (which change previous ones), entering codes while	

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holding down the two rightmost buttons on the mouse in DNLS, using the BASE Reset Viewspecs command which sets them back to your default, and by entering codes in some NLS commands, namely when prompted with "V:". When you enter viewspecs, they remain in effect until you change them again.	3aa
The BASE Set Viewspecs command: See Set Viewspecs.	3aa1
The BASE Reset Viewspecs: See Reset Viewspecs,	3aa2
The BASE Show Viewspecs (status) command: See Show Viewspecs (BASE).	3aa3
The USEROPTIONS Viewspecs Default command: See Viewspecs (USEROPTIONS).	3aa4
The USEROPTIONS Show Viewspecs command: See Show Viewspecs (USEROPTIONS),	3aa5
Character: single elements that can be visible or invisible such as letters, numbers, punctuation marks, spaces, carriage returns and control characters. Each character is represented in the TENEX/PDP=10 system by at least 7 bits.	3ab
non-printing characters (invisible): See Invisible,	3ab1
printing characters (visible): See Printing,	3ab2
numbers: See Number,	3ab3
CTRL=character: <ctrl=>: See CTRL=character.</ctrl=>	3ab4
<ukc>: Unknown Character: See UKC,</ukc>	3ab5

character: Backspace Character: BC: The key you type to erase the last character you typed. In TNLS, BC or <CTRL=A> will echo both a slash and the character it has deleted. You may backspace as many times as you like. In DNLS, the BC key on the keyboard, the left mouse button and, <CIRL=A> all specify backspace character, In DNLS, the backspaced character(s) will simply disappear. When you use BC in a commandword specification, it will erase the whole word, See also: Ctrl=character, Backspace.

CHARACTERADDRESS: ('CHARACTER preceded by single quote): where CHARACTER = a single character : an address element that moves you to the next occurrence of that character. If the character is not found in the current statement, the search will go on to the next statement in the hierarchy, and so on to the end of the file. After you use a CHARACTERADDRESS, if you want to jump to a subsequent occurrence of that character, use the TAB command. See also: Character, Statement, Hierarchy, TAB=command.

Specialeffects: CHARACTERADDRESS may be followed by the equal

GLOSSARY

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sign and a number and a "c"
e.g.: "a=2c indicating the second occurrence of the letter a.
This may be further followed by another equal sign and a number
and a "s" meaning to search only within that number of
statements. A "w" can be used instead of a "c" to mean the Nth
occurrence of CHARACTER as a word. (If a number is not specified
it will be taken to be 1)
EXAMPLE: To search for the word "a" within the next 2 statements
only, type: "a=w=2s.

citation: See initial.

class-I: See Userprograms.

Class=II and III user=programs: in Directory XPROGRAMS: ARC places user=programs into class I, II, and III. Help descriptions are provided only for class I which contains user=programs approved by both of the ARC assistant directors and the ARC user development coordinator. These are maintained by ARC across system changes. Class II contains user=programs not officially maintained by ARC but which use procedures guaranteed by ARC not to change. For a list of these procedures, see procedures. Class III contains user=programs with no guarantee by ARC to run across system changes. A list of some class II and III user=programs made available by their authors resides in directory "xprograms". Jump to Link <xprograms, library, >. Unlike Class=I programs, you must place the directory name "xprograms, " in front of a Class=II and III program name in order to load it.

Clear (TTY Window) OK: This DNLS command clears your TTY-simulation window. See also: TTY-simulation.

Clear: Use the Calculator subsystem command "Clear" to erase your calculator file or set your current accumulator to zero. See also: file (CALCULATOR), accumulator.

Accumulator: Clear Accumulator OK: Use the Calculator subsystem command "Clear Accumulator" to set your current accumulator to zero. See also: Accumulator, Use.

File: Clear File OK: Use the Calculator subsystem command "Clear File" to erase your calculator file. See also: File (CALCULATOR),

clipping viewspecs: cut off lines or levels: Levels: d, b, a, c, w, x, e Lines: t, r, g, s, w, x.

d Viewspec:	show first level only. See d.	3aj1
e Viewspec:	level of referenced statement, See e.	3aj2
h Viewsper!	show one level more See b	2012

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a	Viewspec:	show one level less. See a,	3aj4
c	Viewspec:	show all levels. See c.	3aj5
t	Viewspec:	show first lines only. See t.	3aj6
r	Viewspec:	show one line more. See r.	3aj7
q	Viewspec:	show one line less. See q.	3aj8
s	Viewspec:	show all lines. See s.	3aj9
x	Viewspec:	show one line and one level only. See x.	3aj10
W	viewspec:	show all lines and all levels. See w.	3aj11

CM: Control Marker: A Control Marker (CM) is always pointing to a character within a statement in a file. When you load a file, the CM moves to the first character position in the origin statement. Whenever you point in a command, the CM moves, usually in relation to your current location. See also: Pointing, Character, Statement, File, Load, Origin, Locating. In DNLS, you can move the CM around by BUGGING with the mouse. See: Viewing, BUG.

CML: Command Meta Language: a formal language developed at ARC for describing the command language and interaction of a subsystem (or an application program) with its human user. A program written in CML is compiled by the CML compiler and the data structure produced is called a grammar. A filename with extension . CML; points to a compiled subsystem grammar. The Load Program command will make the subsystem available. In order to load simultaneously the CML front end and the L10 supporting programs, the L10 program file must have the same name but with extension "SUBSYS; . The current CML userguide is <Journal document--19149, >.

interpreter: CML interpreter: See Interpreter.

rone, bee portware	code:	See	Sof	twal	re,
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collaboration: See Dialog.

COM: an acronym for Computer Output to Microfilm: The NLS Output Processor can create files suitable for printing via COM. The film may be used to make plates for printing. COM allows various graphic arts quality type faces, type sizes, proportional spacing, and one= to four-column justification. Read the Output Processor User's guide through <userguides, locator, > for more information. The printed version of the guide shows examples of type face, etc.

output COM command: See Output COM.

combinations of numbers, u's and d's: A string of lowercase u's and

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d's, optionally preceded by integers, terminated by a SPACE or CA; the difference between the number of u's and d's is taken as a level adjustment value. The value locates the STRUCTURE so many levels "up" or "down" relative to your present location. See also: Level, Leveladjust (USEROPTIONS), prompts, STRUCTURE, Statement, CA.

Command language Parameters: NLS has a rich and powerful command language divided into SUBSYSTEMs for moving around in and modifying information. To use a command, you must get NLS to recognize Commandword operators which are then followed by operands. To understand any of the NLS command descriptions, you must understand the notation conventions. Noisewords and prompts help describe what is happening.

notation for command syntax: See Notation.	Jagi
SUBSYSTEM: See SUBSYSTEM,	3aq2
Commandword operators: See Commandword,	3ag3
Operands: See Operands,	3ag4
prompts: See prompts,	3aq5
(noiseword): See Noiseword,	3aq6
DK: command confirmation: See OK.	3aq7
Backspace in commands: See Backspace.	3ag8
categories of command lists: See Categories,	3ag9

Command=Accept: See CA, Command=Delete: See CD,

Commandnominal: See Nominals,

Commands: backspacing at a prompt: You can backspace out of commandwords using both BC <CTRL=A> and BW <CTRL=W>. In TNLS this shows up as _ . It takes you back to your previous command parameter and prompts that, or it will show up as / to represent a deleted character. when you type BC or BW at a prompt, you will be backed up to the previous prompt. In TNLS this is represented by _ and repeating a prompt. See also: BC, BW.

certain command fields where backspacing doesn't work: Using BW or BC to back up through commandwords and operands will trip up in commands using perform loops. If feedback and prompts start looking mixed up while you're backspacing through a command, you should give a CD and start the command over. Examples of commands that trip up on Backspace are Substitute and the option loop in the directory commands.

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	commands in most NLS subsystems: See Universal.	3av
	commands in the BASE subsystem: See also: Command, HOW, SUBSYSTEM,	3aw
	systems=commands: See Universal,	3aw1
	Insert: add, duplicate, create information. See Insert.	3aw2
	Show: see the status of special things, See Show,	3aw3
	Set: See Set.	3aw4
	Reset: See Reset.	3aw5
	<pre>modifying=commands: Replace, Copy, Transpose, etc. See modifying=commands.</pre>	3aw6
	viewing-commands: jumping, printing, reading, etc. See Viewing-commands,	3aw7
	file=handling: See file=handling.	3aw8
	archiving=commands: See archiving=commands,	3aw9
1	terminal-commands: See terminal-commands,	3aw10
	display-commands only: See display-commands.	3aw11
	recording, marking characters: See recording,	3aw12
	commands in the Calculator: See Calculator subsystem,	3ax
	commands in the Sendmail subsystem:	Зау
	Authors CONTENT OK: see Authors (SENDMAIL).	3ay1
	Branch (at) SOURCE OK: See Branch (SENDMAIL),	3ay2
	Comment CONTENT OK: see Comment (SENDMAIL).	3ay3
	Distribute (for) CATEGORY (to) CONTENT OK: See Distribute (SENDMAIL),	3ay4
	Execute (command in) SUBSYSTEM: see Execute,	3ay5
	Expedite OK: See Expedite (SENDMAIL),	3ay6
	File: DESTINATION OK: See File (SENDMAIL).	3ay7
	Forward (item number) CONTENT (for) ACTION/INFO (only): See Forward (SENDMAIL),	3ay8
	Goto SUBSYSTEM DK: See goto.	3ay9

Group (from) SOURCE OK: See Group (SENDMAIL). 3ay10 Offline (item == located at) CONTENT OK: See Offline (SENDMAIL). 3ay11 OKREPEAT <CTRL=B>: See OKREPEAT. 3ay12 3ay13 Initialize (specifications) OK: See Initialize (SENDMAIL). Insert: See Insert (SENDMAIL). 3ay14 Interrogate CK: See Interrogate (SENDMAIL). 3ay15 3ay16 Keywords CONTENT OK: See Keywords (SENDMAIL). Message CONTENT OK: See Message (SENDMAIL). 3ay17 3av18 Number Assign/Previously : See Number (SENDMAIL). Obsoletes (item number(s)) CONTENT OK: See Obsoletes (SENDMAIL). 3ay19 Plex (at) SOURCE OK: See Plex (SENDMAIL). 3ay20 3ay21 Private OK: See Private (SENDMAIL). Process (sendmail form at) DESTINATION OK: See Process (SENDMAIL). 3ay22 Public: See Public (SENDMAIL). 3ay23 Quit OK: See quit. 3ay24 RFC (number) CONTENT OK: See RFC (SENDMAIL). 3ay25 3ay26 Reserve: See Reserve (SENDMAIL). Send (the mail) OK: See Send (SENDMAIL). 3ay27 Show Status/Record: See Show (SENDMAIL). 3ay28 Statement (at) CONTENT OK: See Statement (SENDMAIL). 3ay29 Subcollections CONTENT OK: see Subcollections (SENDMAIL). 3ay30 Title CONTENT OK: See Title (SENDMAIL). 3ay31 Unrecorded ANSWER: See Unrecorded (SENDMAIL). 3ay32 Update (to item number(s)) CONTENT OK: See Update (SENDMAIL). 3ay33 commands in the Useroptions subsystem: See useroptions. 3az commands limited to DNLS: See display=commands. 360 commands: list of Base file-handling commands: See file-handling. 3ba

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&SRI=ARC 21=NOV=75 19:38 22132 C commands: See directory-commands. 3bb 3bc commands: See modifying-commands. commands for viewing: See viewing-commands. 3bd Commandword operators: Those parts of a command, usually a verb followed by a nominal, which you specify and which must be recognized by the system according to your recognition mode, Some examples are "Insert Character" and "Delete Branch." Commandword operators are followed by the command operands. A commandword is prompted by C: . In command descriptions, command words are capitalized (not all caps). You must understand your recognition mode before you can use NLS. See also: NOTATION, Recognition, Verb-nominal. 3be Limit commandword feedback in TNLS: See Limit. 3be1 3be2 categories of commands: See categories. Comment CONTENT OK: The Sendmail Subsystem command "Comments" allows you to enter a comment as part of your journal item. It will be attached to the citation you send. The comment appears as page one of the hardcopy item and is the last thing in its online header. You can also enter comments for specific IDENTS as described in the Distribute command. 3bf CONTENT: See content. 3bf1 Header: See header. 3bf2 citation: See citation. 3bf3 3bf4 The Send command: See send. 3bg communication: See Sendmail subsystem. Compile: The Programs' subsystem command Compile translates programming instruction language using the compiler you specify. In most cases, it only compiles those instructions which pass the 3bh viewspecs you currently have in effect. Assembler: Compile Assembler (file at) DESTINATION (using) CONTENT (to file) CONTENT OK: The Programs Subsystem command "Compile Assembler" allows you to create a compiled file at a new file address. DESTINATION wants you to specify an NLS file containing the code to be assembled by the assembler. The first CONTENT wants the FILEADDRESS of the assembler and the second CONTENT wants the FILEADDRESS of the new file. 3bh1

TNLS example:

PROG C: Compile C: Assembler (at) A: 1



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Effects: A file will be created with the FILENAME you give it. If you don't specify the extension, it will default to REL. 3bhib

Content: Compile Content (pattern) CONTENT OK: The Programs subsystem command "Compile Content (pattern)" allows you to typein or point to a content-analyzer pattern. It then compiles the pattern and makes it your current content-analyzer. After you specify the content-analyzer pattern, its effect is turned off and on using the viewspecs i, j, and k. When pointing to a pattern instead of typing it in, you must point to the first character of the entire pattern and it must have a semicolon following it. This is a duplicate of the BASE subsystem command "Set Content (pattern) To". Content-analyzer programs already compiled into a program file, can be loaded using the Programs subsystem command "Load Program".

content-analyzers: See content-analyzer.

content-analysis viewspecs: See content-analysis.

The Programs subsystem Load Program command: see load (PROGRAMS).

File: Compile File (at) DESTINATION (using) CONTENT (to file) CONTENT OK: The Program's subsystem command "Compile File " allows you to create a compiled file at a new file address, DESTINATION wants you to specify the NLS file containing the code to be compiled. The first CONTENT wants the FILEADDRESS of the compiler and the second CONTENT wants the FILEADDRESS of the new file.

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3bh1a

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3bh2a

3bh2b

3bh2c

TNLS example: PROG C: Compile C: File (at) A: 1 (using) T: L10 (to file) T: prog PROG C:

Effects: compiles a program into a file with the extension REL (unless otherwise specified). The FILENAME must be the same as the program name. L10 compilations must begin at a "FILE" statement and will stop at the "FINISH" statement. The compiled file can then be loaded into your programs buffer by the Load Program command in the Programs subsystem. It goes away when you delete it from your buffer or when you end your session. It must be recompiled the next time you want to run it.

3bh3b



complaints: Report your difficulties with NLS to FEEDBACK, and	3bk
Someone will listen to you and answer you, bee reporting,	25.1
Computers: See site.	301
CONCEPTS: See how,	3bm
confirm: See ok.	3bn
Connect (to) Directory/Display/TTY :	3bo
Directory: Connect (to) Directory CONTENT (Password) PASSWORD OK: The command "Connect to" allows you to use most NLS and TENEX files as if you had logged in under the directory you specify. If you already have access to the directory you specify for CONTENT, you can just hit CA instead of typing the PASSWORD, See also: CONTENT, PASSWORD, CA, OPTION, ADDRESS, file, directory. Ask your computer's operator about directory groups.	3b01
TNLS example:	
BASE C: Connect to C: Directory T: guest Password T: BASE C:	3bola
Effects: Modification files, which contain the changes you have made, will appear in the directory where you logged in until you update the modified file.	3b01b
Display: [DNLS only] Connect (to) Display (number) CONTENT (for) Input/Output: Output (only) mode does not allow you to do anything except watch. Input (and output) mode is for cooperative work. For TENEX-type linking, use the Connect to TTy command for Output (only). See Connect TTY Output.	
	3bo2
Output: Connect (to) Display (number) CONTENT (for) Output (only) OK: The DNLS command "Connect (to) Display (number)"allows you to watch another Display terminal. That terminal must issue the "Accept Connection (for) Output (only)" command giving your TTY number. Use instead Input (and Output) mode for collaboration with a shared view of the same file. See also: Connect Display Input, Connect TTY output. Terminate the Connection by hitting <ctrl-p> twice.</ctrl-p>	3bo2a
Input: Connect (to) Display (number) CONTENT (for) Input (and Output) OK: The DNLS command "Connect (to) Display (number)" allows you to collaborate with another person by viewing the same image of a file after issuing this command. The person at the terminal with the number you specify for CONTENT has one minute to issue the "Accept Connections (from) YOUR TTY NUMBER (for) Input (and Output)" command. Terminate the Connection by hitting <ctrl=p> twice. See also: Connect TTY</ctrl=p>	

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Output.

TTY: Connect (to) TTY (number) CONTENT (for) Input/Output ... Output (only) mode is like the TENEX LINK command. Input (and output) mode works like the TENEX ADVISE command.

Output: Connect (to) TTY (number) CONTENT (for) Dutput (only) OK: The command "Connect (to) TTY (number)" makes what you type appear at the other terminal and visa versa. To find someone's terminal number, use the WHERE or SYSTAT commands in TENEX. Follow the "Connect" command with the semicolon command. <CTRL-P>, <CTRL=O> or the Disconnect command will break the connection.

DNLS usage: The DNLS user may communicate with TNLS users and other DNLS users with Base's Connect to TTY command. Once connected, use the TTY window to see what the other user is doing, or go to the TENEX level. You will be able to see anything a TNLS user is doing while you are linked to him. The only actions of another DNLS user you will see is whatever would appear in his TTY window or at his TENEX level. This is enough if you intend just to comment (Semicolon command). To see everything a DNLS user does, i.e., share viewing a file with her/him (but not cursors), use Base's Connect to Display command. See also: Connecting, Connect TTY, Connect Display, TTY=window, cursor, semicolon.

TNLS example: BASE C: Connect (to) C: TTY (Number) T: 27 C: Input and Output OK: BASE C:

linking: See connecting.

CONTENT wants the user's TTY number: (this is the number the system assigns to each terminal). Warning: Connecting TTY's might affect the other user's job if she is in NDNLS, OUTPRC, L10, or other special subsystems; EXEC (TENEX), TNLS, NTNLS, or DNLS are usually safe. Use the WHERE command in TENEX for all this information about another user. See also: CONTENT, TENEX, WHERE.

See also: semicolon, Disconnect, Terminals,

Input: [TNLS only] Connect (to) TTY (Number) CONTENT (for) Input (and Output) OK: If you specify the Input (and Output) mode, you will be advising the job at the terminal number you specify for CONTENT. This means the person to whom you are connecting must issue the "Accept Connection" command and any commands you give will occur to the person you are linked to

29

3003

3bo2b

3bo3a

1.00

3bo3a1

3bo3a2

3bo3a3

3bo3a4

3b03a5



Disconnect Terminal command in Base: See disconnect. 3bg2b Connected terminals for DNLS users: See connect display. 3bg2c Where command in TENEX: See Where. 3bg2d

connection: See terminals.

BASE C:

Connections: The Lineprocessor must be connected to a source of computer service. It may be wired permanently to a computer or to a TIP with access to the ARPANET, or it may be connected to a telephone through a box called a modem with or without an acoustic coupler that cradles the receiver.

Console: See DNLS.

3bs 3bt

3br

C

NLS=8

Ç

content search: "TYPEIN": A string of text enclosed in double quotes causes a search for all of the Users, Groups, or Organizatons (in that order) that have that text in their name. <ctrl=d> stops the search of the Users to begin the search of the Groups and stops the search of the Groups to begin the search of Organizations.</ctrl=d>	Зъи
content-analysis and sequence generator viewspecs: i, k, j, O, P. See also: content-analyzer.	3bv
i Viewspec: analyze the content of statements: See i.	3bv1
j Viewspec: don't filter statements: See j.	3bv2
k Viewspec: show next filtered statement: See k,	3bv3
semicolons: set off content=analyzer patterns in links: See semicolons,	3bv4
Capital=0 viewspec: user sequence generator on: See Capital=0.	3bv5
Capital=P Viewspec: user sequence generator off: See Capital=P.	3bv6
content-analyzer: a process that checks the characters in each statement. It "passes" the statement so it can be viewed and/or modifies the statement depending on the content-analyzer being used. It is evoked by the use of content-analysis viewspecs: i or k. You choose content-analyzers by specifying a content-analyzer pattern, or a content-analyzer program.	3bw
content-analysis viewspecs: See content-analysis,	3bw1
pattern: content-analyzer pattern: See pattern.	3bw2
program: content-analyzer program: See program.	3bw3
steps in using a content-analyzer: See steps,	3bw4
Content-analyzers: See Class-II. See also: content-analyzer.	3bx
content=pattern: See content=analyzer.	Зbу
content-search: See contentaddress,	3bz
content:	3c@
content-analyzer patterns and programs: See content-analyzer,	3001
CONTENT: the part of a command asking you to TYPEIN characters. You may also give an ADDRESS for the CONTENT if you precede the ADDRESS with <ctrl=u>. IN TNLS, CONTENT asks for a TYPEIN or OPTION ADDRESS and is prompted by T/[A]:. See also: CHARACTERS, FILEADDRESS, pointing, prompts, TNLS.</ctrl=u>	

3c@2



IN DNLS, you can also BUG the CONTENT (prompted by B/T/[A]:). See BUG. 3c@2b

CONTENTADDRESS: "TYPEIN"=2w3s (surrounded by quotes): an address element that allows you to search for a specific content that you specify for TYPEIN. This may be followed by "=" and a Number N and a "w", indicating the Nth occurrence of TYPEIN as a word. It may be further followed by a Number N and an "s" meaning to search only within N statements. A "c" for content can be used instead of a "w" to mean the Nth occurrence of TYPEIN as any string. If no numbers or letters are specified it will be taken to be one content (1c): search all the following statements in the file for the next occurrence of TYPEIN as any string. You may not search for any string bounded by quotes. EXAMPLE: ". P" will be a content search for ", P"

word=search: "word"=w See word=search.

control-characters: See CTRL-character.

C

32

Control characters: The Useroptions subsystem command "Control" allows you to assign certain Command Control Functions (like Command Accept, Repeat, etc.) to any special characters you choose. You can write one set of definitions for each kind of terminal you use.

syntax: Control (characters for terminal) DEVICES OK (control character) CONTROLFUNCTIONS (character(s)) CONTENT (echo as) CONTENT OK: DEVICES = Tasker or Ti (terminal) or NVT or Lineprocessor or Imlac or Execuport or 33=TTY or 35=TTY or 37=TTY CONTROLFUNCTIONS = Ca or Cd or Rpt or Insert or Bc or Bw or Bs or Litesc

or Ignore or Sc or Sw

Effects: Users often change NLS control characters to avoid characters that mean something else on their local system. Some Control Functions have standard unalterable characters. All have other default assignments which will be overridden by any other special characters you define with this command. When it asks you "character(s)" you may type as many keys for each character as you like. Repeat the command to set definitions for other terminals and other control functions. This command will take effect immediately and for all future NLS sessions until you return to the defaults with the Reset Control command. You may see your current list of definitions with the Show Control command.

or Tab.

What "echo as" wants: Specify the character that will print when the function is used.

3cb3

NLS=8

3cb2

3003

3c@3a

3ca

3cb

3cb1
C

Note on DEVICES: NVT means "Network Virtual Terminal". Specifying Tasker, Imlac, or Lineprocessor will set up definitions only for the use of DNLS from that terminal. All others set up definitions for TNLS. When you run TNLS from EXEC on one of those display terminals, you'll get the character set for TI; going into TNLS via Simulate command gets you the set for 3cb4 the terminal you specify. 3cb5 Command control functions: See controlfunctions. See also: CIRL=characters, Terminals, Useroptions Reset Control, 3cb6 Useroptions Show Control. Copy: The command "Copy" allows you to reproduce a SOURCE you specify at the DESTINATION you specify. See also: SOURCE, 3cc DESTINATION. STRING: COPY STRING (from) SOURCE (to follow) DESTINATION OK: This group of "Copy" commands reproduces a STRING at another 3cc1 location. TNLS example: BASE C: Copy C: Word (from) A: 02 +2w (to follow) A: 05 +1w 3cc1a BASE C: Effects: SOURCE also provides you the choice of TYPEIN, that is, you can "insert" a new STRING, instead of "copying" one, into the new location with this command. After execution, you are at the last character of the new STRING. 3cc1b STRING: Character, Text, Word, Visible, Invisible, Number, or 3cc1c Link See String. STRUCTURE: COPY STRUCTURE (from) SOURCE (to follow) DESTINATION ((Filtered:) FILTER] LEVEL-ADJUST OK: This group of "Copy" commands reproduces the STRUCTURE at another location. 3cc2 TNLS example: BASE C: Copy C: Branch (from) A: 5d (to follow) A: 1c T. 2 BASE C: 3cc2a SOURCE also provides you the choice of TYPEIN, i.e., Effects: you can "insert" a new statement, instead of "copying" one, into the new location with this command. After execution the same STRUCTURE exists in two places, and you are at the first character of the new STRUCTURE. Note--Copy does not pay attention to the Viewspecs you have on (i.e., it works throughout the STRUCTURE you point to whether all of it's visible to you or not), unless you specify VIEWSPECS in the

FILTER option, which pays attention to level, content analyzer, and sequence generator Viewspecs. You cannot limit the effects to certain lines (like first lines only) with this command. 3cc2b STRUCTURE: Statement, Branch, Plex, or Group: See Structure: 3cc2c Directory: Copy Directory (of) CONTENT (to follow) DESTINATION LEVEL-ADJUST [DIROPT] OK: The command "Copy Directory" copies any directory as a plex following the address you specify for DESTINATION. CONTENT lets you type or point to the name of the directory. After execution, you are at the first character of the first statement of the copied directory. 3cc3 TNLS example: BASE C: Copy C: Directory (of) OK/T: MaBell (to follow) A: 3d L: d BASE C: 3cc3a DIROPT option: See diropt. 3cc3b File: Copy File (from) CONTENT (to) CONTENT OK: The command "Copy File" copies the file from the FILEADDRESS you specify to the new name at the second FILEADDRESS you specify. It will not work when the file to be copied is loaded. See also: MODIFICATION, FILEADDRESS, CONTENT, CREATING. 3cc4 TNLS example: BASE C: Copy C: File (from) T/[A]: pooh(to) T/[A]: tiger Copied Files Are: < WEINBERG, POOH.NLS;61, > [and PC] to < WEINBERG, TIGER.NLS;61, > [and PC] < WEINBERG, POOH.NLS:60, > to < WEINBERG, TIGER.NLS:60, > BASE C: 3cc4a Effects: It will not work when the file to be copied is loaded. You must go to another file and use the copy command from there. If you are modifying the file, it also creates a modification file with the new filename. Copy file obeys the rules of privacy and protection: you can copy only files you can read, only into directories where you can write. Copy File fails to rewrite the origin statement. See also: file, privacy, protection, directory, write, modification, username. 3cc4b Sequential: Copy Sequential (file from) CONTENT (to follow)

DESTINATION LEVEL-ADJUST (using) SEQTYPE: The command "Copy Sequential" copies the text from the sequential file at the FILEADDRESS you specify (for CONTENT) into the NLS file at the

DESTINATION you specify.

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C

C

3cc5

SEGTYPE =

One (<CR> to end statement) OK: Each line of the sequential file will be a statement, its level determined by the number of spaces or tabs at the beginning of the line. Blank lines will show up as separate statements containing one space. We recommend you use Two <CR>'s to end the statements. 3cc5a Two (<CR>s ends statement) Justified/OK: A new statement will occur after two successive carriage returns. Single carriage returns which occur after 62 characters will be changed into spaces. The statement level is taken from the lesser 3cc5b indentation of the first two lines of the statement. Justified (delete extra <SP>) DK: this Copy Sequental (file) command will remove multiple spaces from lines which have been right justified in the source file. It will only remove multiple spaces from lines longer than 62 3cc5b1 characters. 3cc5c Assembler OK: This is for Assembler Programs. 3cc5d See also: Programs message copy. correcting errors: To escape from a command you have started, type <CTRL=X>. To backspace and delete one character in a TYPEIN, type <CTRL=A>. To backspace and delete back to the previous word, type The commands people use most often to correct errors in <CTRL=W>. text that is already online are substitute and Replace. Use the pelete Modifications command to erase modifications you have made 3cd since your last "Update". The Delete Modifications command: See Delete modifications. 3cd1

common error messages and what to do about them: See Error. 3cd2

<CR>: the typewriter key that is used for a carriage return. The notation <CR> represents carriage return. Carriage return is the default character in TNLS for a CA. See also: CA, notation,

Create File CONTENT OK: The command "Create File" makes a new file in a directory. It will give the new file the name you specify for CONTENT, load the file, and insert the origin statement. You will be at the first character of the origin statement. A new file or version can also be created whenever you update, move, output, or copy a file. See also: file, directory, origin, statement, loading, FILEADDRESS, CONTENT.

TNLS example: BASE C: Create C: File T: bebop BASE C:

GLOSSARY

3cf

3ce

The Insert Statement Command: See insert statement.	3cf2
Other commands that can can create new files or new versions of files:	3cf3
Update File: See Update.	3cf3a
Copy File: See Copy file.	3cf3b
Output commands: There are options that create new files in the following Output commands:	3cf3c
Output Com: See output com.	3cf3c1
Output Journal: See output journal.	3cf3c2
Output Printer: See output printer.	3cf3c3
Output Quickprint: See output quickprint.	3cf3c4
reating files: See create,	3cg
rt: acronym for Cathode Ray Tube: See Display,	3ch
TRL: The control shift key on the keyboard: See CTRL-character,	3ci
CTRL=A>: Backspace Character (BC): See Character (backspace),	Зсј
CTRL=B>: OKREPEAT: See OKREPEAT, See also: OK,	3ck
CTRL=C> TENEX ATTENTION: Typing the character <ctrl=c>, gets the attention of the timesharing system, TENEX. It interrupts your NLS session and forgets any characters you typed ahead. If you want to return to NLS, by typing "con, " you can only execute simple TENEX commands and you may not call other subsystems such as Telnet. It is best to use the Quit NLS command instead of <ctrl=c>. To return to NLS, type "con" at the herald and strike carriage return. (For TNLS, the system will in no way signal your return, since you continue at the exact point of departure.)</ctrl=c></ctrl=c>	301
Quit command: See Quit,	3c11
TRL-character: <ctrl=>: By holding down the control key (CTRL on most terminals) while typing a specified letter, you can produce special characters called control characters. <ctrl=(some letter)=""> is the notation used to represent control characters. Control characters have specific functions (listed below) and ordinarily do not print. If they are printed in text, they will show up as a</ctrl=(some></ctrl=>	

not print, If they are printed in text, they will show up as a string of four characters (i.e., < L>) that act as if they were a single character. You can allocate the functions of control characters to other characters by using the useroptions subsystem, see also: invisible, control (USEROPTIONS).

3cm

C

-		&SRI=ARC 21=NOV=75 19:38 C	22132
	<ctrl=d>:</ctrl=d>	Command Accept (CA): See CA.	3cn
	<ctrl=e>:</ctrl=e>	OKINSERT: See OKINSERT.	300
	<ctrl=f>:</ctrl=f>	filename recognition: See ESC,	Зср
	<ctrl=g>: connected visual equ</ctrl=g>	ring bell: Typing the character <ctrl=g>, when you are to another user, will ring a bell, or you will see a uivalent. See also: connect.</ctrl=g>	3cq
	<ctrl=h>: be used for</ctrl=h>	Program interrupt for NDDT: Typing <ctrl=h> can usually or BC. See also: NLS=DDT.</ctrl=h>	3cr
	<ctrl=i>:</ctrl=i>	TAB: See tab.	3cs
	<ctrl=j>:</ctrl=j>	Linefeed <lf>: See lf.</lf>	3ct
	<ctrl=k>:</ctrl=k>	not used in NLS.	3cu
	<ctrl=l>:</ctrl=l>	form feed: See formfeed.	3cv
	<ctrl=m>:</ctrl=m>	carriage return: See cr.	3cw
	<ctrl=n>:</ctrl=n>	<null>: See null.</null>	Зсх
)	<ctrl=0>: stops the time is er patient,</ctrl=0>	stop process: Typing the character <ctrl=o> any time process you are doing such as printing or searching. One hough, but it sometimes takes a while to take effect. Be see also: Print.</ctrl=o>	Зсу
	<ctrl=p>:</ctrl=p>	Disconnect connected jobs: See connect display input.	3cz
	<ctrl=q>: in a comma places you meanings of</ctrl=q>	HELP signal: Typing the character <ctrl=q> at any point and provides a description about what you were doing and I in the Help command which allows you to ask for the of other terms, See also: Help, COMPARE: questionmark,</ctrl=q>	3d@
	<ctrl=r>: middle of done. Thi See also:</ctrl=r>	Reprint line so far: Typing the character <ctrl=r> in the inserting will show you a clean line of what you have is is handy if you have been doing a lot of backspacing, control, insert.</ctrl=r>	3da
	<ctrl=s>:</ctrl=s>	Show this command's syntax, See notation,	3db
)	<pre><ctrl=t>: the curren average, a you have u doing even WAIT", the says "RUNN abead upt1</ctrl=t></pre>	TIME and LOAD: Typing the character <ctrl=t> will print of date, time, your computer status, the system load and how much CPU time you have used and how much real time used. It does all this without disturbing anything you are if you are in the middle of a command. If it says "IO en usually it is waiting for you to do something. If it NING" then you are waiting for it (though you can type</ctrl=t>	345
	CTRL-IIN	OPTION character: See Optional	344
	-CIND-021	outon cuaracter, acc obstaugt.	Jud

с		&SRI=ARC	21-NOV-75	19:38 22132
<ctrl=v>: Literal H</ctrl=v>	Escape: See Literal.			3de
<ctrl=w>: Backspace</ctrl=w>	Word BW: See Word.			3df
<ctrl=x>: Command I</ctrl=x>	Delete CD: See CD.			3dg
<ctrl-y>: Not used</ctrl-y>	in NLS.			3dh
<pre><ctrl-z>: TELNET RE the attention of TE SENDMESSAGE, See a</ctrl-z></pre>	COGNITION: Typing th LLNET. It is also use also: network.	e character d at the end	<pre><ctrl=z> ge of a TENE)</ctrl=z></pre>	ets (3di
Currentcontext (leng "Currentcontext" character you are 1 The default value i	oth) NUMBER OK: The Unanges the NUMBER of clocated at as shown in located at as shown in ls 7 characters, See	seroptions s haracters the response to Slash.	ubsystem co at surround typing a s	ommand d the slash, 3dj
To see the number currentcontext (of characters presen (USEROPTIONS).	tly establis	ned: See S	Show 3dj1
To reset the curr currentcontext (entcontext length bac (USEROPTIONS),	k to 7: See	Reset	3dj2

cursor: See BUG,

3dk

D

4

4a

46

4c

4d

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4f

4g

4h

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41

411

412

4j3

4j4

D d Viewspec: show first level only: "Show first level only." Normally, all levels are shown (standard viewspecs w and c); viewspec d changes your view to show only highest level statements. Unlike x (one line, one level) it does not affect number of lines shown. It changes viewspecs w, e, c, b, and a. Example: to show only three levels use the string dbb. See also: level, w, c, b, e, a, x. D Viewspec: don't show statement names: "Don't show statement names." If the first word of any statement is enclosed in the name delimiters defined for that statement, it will not be shown when the statement is cutput or viewed. To show statement names, use Viewspec C. See also: Statementname, Capital-C. DAE: Dynamic Address Expression: See address. DARPA: See ARPA. Dash: See: Link, Stringposition, Number. data base: See Software. DDT: Acronym for Dynamic Debugging Tool, a program useful for establishing at what point in another program a problem occured. see NLS=DDT. DEC: Acronym for Digital Equipment Corporation. Decisions concerning future items to be implemented: See reporting. default: That which occurs unless you specify otherwise. For example, in INLS, the carriage return key is automatically (by default) the same as command accept unless you chose to make another key be command accept. filename recognition defaults: See recognition. default viewspecs: See viewspecs (USEROPTIONS). default directory for links: See defaults. default subsystems and programs: See show default (USEROPTIONS). defaults: The default directory for links imbedded in a statement is determined by the Set Link default command. The default file for

links is the current file. There can be no default file if the

directory is specified. The default ADDRESS is the current location of the link. The default viewspecs or filter are the current ones in effect, when typing in an address, the default directory is the directory to which you are connected. See also: default. 4k Exceptions for journal and program files: See Exceptions. 4K1 Set (directory) Link default for file command: See Set Link. 4K2 Deinstitute PROGTYPE (program) OK: The Programs' subsystem command "Deinstitute PROGTYPE" deinstitutes the type of program you specify in PROGTYPE as one of the commandwords listed below. Does not remove the program from the stack or buffer. It may be reinstituted at any time without re-loading or re-compiling. See also: instituting. PROGTYPE wants one of the following commandwords: 41 Content (analyzer): See content (PROGRAMS). 411 Sequence (generator): See sequence. 412 Sort (key extractor): See sort (PROGRAMS). 413 DEL: See CD. 4 m Delete: The command "Delete" erases something you specify such as a character, word, statement, etc. from the DESTINATION you specify, See also: DESTINATION. 4n STRING: Delete STRING (at) DESTINATION OK: This group of "Delete" commands erases the type of STRING you specify from a statement. 4n1 TNLS example: BASE C: pelete C: Character (at) A: 1 DK: BASE C: 4n1a Effects: After execution, you are at the first character following the deleted STRING (or at the new last character if the deletion included the end of the statement). 4n1b STRING: Character, Text, Word, Visible, Invisible, Number, Link: See string. 4n1c STRUCTURE: Delete STRUCTURE (at) DESTINATION ((Filtered:) FILTER) OK: This group of "Delete" commands erases the type of STRUCTURE you specify from a file. 4n2 TNLS example: BASE C: Delete C: Branch (at) A: 2 OK: BASE C: 4n2a

D

D

4n2b

4n2d

4n3a

4n3b

4n3c

4n4

- Effects: You may not use Delete Statement if the statement has substructure (instead, try Delete Branch with a FILTER of Viewspec e; See also: FILTER). After execution, you are at the first character of the next statement following the deleted STRUCTURE (or the new last statement if you deleted the last statement in the file). Note--Delete works throughout the STRUCTURE you point to whether all of it's visible to you or not, unless you specify VIEWSPECS in the FILTER option.
- FILTER option: enter VIEWSPECS: This option selects statements to be deleted by certain viewspecs you can specify as a string of character codes. Type the OPTION character, <CTRL=U>, first and then enter any combination of the following Viewspecs: for level==a, b, c, d, e, w, x, for content analyzer==i, j, k, for sequence generator==0, P. Statements which are left somewhere without a source, because the source passed the FILTER (and thereby got deleted) although they didn't, will be promoted up in level. 4n2c
- See also: substructure, next, viewspecs, source, level, LEVEL=ADJUST.

STRUCTURE: Statement, Branch, Plex, or Group: See structure: 4n2e

All: Delete All (markers) DK: The command "Delete All" (markers) erases all the markers in the file you have loaded, 4n3

TNLS example: BASE C: pelete C: All (markers) OK: BASE C:

Effects: If you want to delete only one marker, use the Delete Marker command. To see a list of the markers in your file use the command Show File Marker list.

See also: markers, Mark, Delete Marker, Show File Marker,

Edge: Delete Edge (at) BUG OK: The command "Delete Edge" erases a window created by the Insert Edge command. It will keep the window in which the cursor is residing when you hit OK. Once a window has been deleted, it cannot be retrieved. See also: Edges, Insert Edge, Move Edge.

File: Delete File CONTENT OK: The command "Delete File" removes the file named for CONTENT from normal use. If you do not name a directory, Delete assumes you mean a file in your own. Expunge erases forever all deleted files in that directory. Undelete recalls a file that has not been expunged. Deleted files risk being expunged periodically by the system. Showing deleted files is an option in the BASE subsystem Show Directory command. See also: FILEADDRESS.

4n5

4n5a

4n5b

4n5c

4n5d

4n6

4n6a

4n6b

4n6c

TNLS example: BASE C: Delete C: File T/[A]: tiger OK: Deleted Files Are: < WEINBERG, TIGER.NLS;61, > and its partial copy < WEINBERG, TIGER.NLS;60, > BASE C:

D

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deletion: Deleting a file makes it disappear from the directory list. Until it has been expunged it can be undeleted, Occasionally your deleted files will be expunged automatically. The second oldest version of every file is automatically deleted when you create a new version. You may see files in your directory with the extension "PC". Don't delete them. They will be deleted automatically when you use the Update or Delete Modifications commands.

Delete File command:See Delete File.4n5b1Delete Modifications command:See Delete Modifications.4n5b2Expunge Directory command:See Expunge Directory.4n5b3Modification file:See Modification.4n5b4

Undelete File command: See Undelete File, 4n5b5

expunging deleted files: See Expunge,

Effect on File Return Ring: If a file is on your File Return Ring and is Deleted, it will continue to be echoed as a choice on your return ring, but you will not be able load the file. If you use the Undelete command before the file is expunded, you will then be able to load it again as if you never deleted it. See also: Return,

Marker: Delete Marker (named) CONTENT DK: The command "Delete Marker" erases one marker from the file you have loaded.

TNLS example: BASE C: Delete C: Marker (named) T/[A]: tagitOK: BASE C:

Effects: Do not include a pound sign (#) in your CONTENT specification (unless you made it part of the marker itself when you gave the Mark command). If you want to delete all the markers in a file, use the Delete All markers command. To see a list of the markers in your file use the command Show Marker list.

See also: markers, Mark, Delete All, Show File Marker.

Modifications: Delete Modifications (to file) OK: The command

NLS=8

&SRI=ARC 21=NOV=75 19:38 22132 "Delete Modifications" discards all changes you have made on a file since the last update. The file will return to its state after the last Update. When you edit a file, the changes build a set of modifications. The Update command fixes the changes 4n7 permanently in the file. See also: file. 4n7a The Update File command: See update. TNLS example: BASE C: Delete C: Modifications (to file) OK: (really?) OK: 4n7b BASE C: Delete: The Programs' subsystem command "Delete" clears your buffer space. See also: 40 buffer. All: Delete All (programs in buffer) OK: The programs subsystem command "Delete All" clears your program stack, deinstitutes all programs, empties the buffer, sets your buffer size back to the 401 default. TNLS example: PROG C: Delete C: All (programs in buffer) OK: PROG C: 401a Last: Delete Last (program in buffer) OK: The programs subsystem command "Delete Last" deletes the most recent program put on your stack, deinstitutes it, and frees its space in the buffer. Does 402 not affect other programs or your buffer size setting. TNLS example: PROG C: pelete C: Last (program in buffer) OK: PROG C: 402a deleted file: See delete file. 4p deleting: See delete. 4q 4r delimiters: statement name delimiters: See name-delimiters. 4r1link delimiters: See link. 4r2Demand: a recognition mode where each commandword will be recognized after you've typed enough characters to define the commandword uniquely (three are enough except in TENEX). If you are set for pemand recognition, you force a word's recognition by typing either

DESTINATION: prompted by A: (in TNLS) or B/A: (in DNLS) wants you

<ALT> [Alt Mode or Escape character] or a space=-<SP>. It won't

take off into the next field until you do this.

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4t

DEX: acronym for Deferred Execution. A system for creating or editing an NLS file offline, on paper or magnetic tape. 411 Dialog Support Systems (DSS): NLS supports two kinds of aids to communication: terminal-to-terminal linking and mail handling, In teletype linking, if you type a character, it also appears on any terminals linked to you and vice versa. If you have the proper terminals you may also link two-dimensional display screens and operate on files both parties witness. Mail handlings includes filing and cataloging as well as dissemination; it uses either the NLS sendmail system or the TENEX Sendmessage system and interconnects them. 4v SNDMSG: TENEX sndmsg subsystem: See SNDMSG. 4v1 Sendmail subsystem of NLS: See sendmail subsystem. 4v2 linking between terminals: See connecting. 4v3 shared screens: See connect display. 4v4 digit: See number. 4 W Ding=a=ling: See bells. 4x Directive: See directives. 4y directives: instructions imbedded in the text of a file that control the format of a file when printed. They are interpreted by the Output Processor. Directives take the form: ".XXX=N;" where XXX is a mnemonic such as "LBS" for lines between statements and N is a number. So. .LBS=4; would mean put four lines between each statement. For basic information, read Xprint among the Exercise files described in <userguides, locator, >; for more information read the Output Processor User's guide. 4z The Output Processor User's guide: A formatted paper copy of this is available via FEEDBACK. See userguides, op-guide. 4Z1 directory of interest to users: 4a@ printer: See printer. 4a@1 programs: See userprograms. 4882 userguides: See userguides. 4203 directory=commands: 4aa 44 NLS=8

to PDINT to something to indicate where something is supposed to happen. In TNLS, DESTINATION equals ADDRESS. In DNLS you can also

BUG, See also: pointing, prompts.

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Connect (to) Directory/Display/TTY : See Connect.	4aa1
Expunge: See Expunge,	4aa2
Reset Link Default: Reset: see reset link,	4aa3
Set Link Default: Set: see set link,	4aa4
Show File Default (directory for links): Show File: see show file default (BASE),	4aa5
Show Disk (space status) command: See show disk (BASE).	4aa6
Trim Directory (No, versions to keep) CONTENT OK (really?) OK: See Trim,	4aa7
irectory: a place where files are located. All directories have a fixed amount of computer (disk) storage space. The user controls the files in his directory to keep from going over the allocated disk space. The name of the directory is also called the "username." To find out what files are in your directory, use the Show Directory command. In order to write on a file in someone else's directory, use the Connect to Directory command.	4ab
pages on the disk: See pages,	4ab1
allocation: file space allocation: See allocation.	4ab2
archiving: See archiving.	4ab3
username: See directory.	4ab4
connecting to directories: See connect directory,	4ab5
Password: See Password,	4ab6
commands: See directory=commands.	4ab7
directories of interest to users: See directories,	4ab8
IROPT: = the options available to you when you use the Show	

DIROPT: = the options available to you when you use the Show Directory command, Typing the OPTION character <CTRL=U>, when prompted by OPT: allows you to use the options listed below to make a special format for the directory you copy. Added information to be printed about each file can be specified by these series of options. [After each one you enter, you will be asked (Finished?). If you answer Y(es) or OK, the option will be terminated; if you answer N(o), you may then enter another option command=word,]

Deleted (files only): lists data for files deleted but not expunged.

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Undeleted (files only): lists data for undeleted files; this is the default.	4ac2
All (files): lists data for both deleted and undeleted files.	4ac3
For (file) CONTENT: lists only file or files associated with one name (affected by action of star convention and Altmode),	4ac4
Everything: everything printable about each file,	4ac5
Verbose: lists size, last writer, last write date, and last read date for each file,	4ac6
Account: account number to which file storage is being charged,	4ac7
Protection: protection status of file.	4ac8
Last (writer): user who last wrote on file,	4ac9
Number (of) Accesses: number of times file has been written and read.	4ac10
Number (of) Versions (to keep): lists the number of versions of each file now being kept,	4ac11
Dump (tape number): tape number of last dump,	4ac12
Archive Status: one of the following (See Archive): already archived; don't delete after archiving; archive not allowed, archive pending; no special status,	4ac13
Archive Tape (numbers): lists tape numbers this file is archived on.	4ac14
Length (and bytesize): size in bytes; then byte length in parentheses.	4ac15
Size (in pages): size in disk pages,	4ac16
Miscellaneous: information such as whether it's a "long file" or permanent file.	4ac17
Date (of) Archiving: date the file was archived (if at all),	4ac18
Date (of) Creation: date this version was created,	4ac19
Date (of) Last (dump): date this version of the file was last dumped on tape,	4ac20
Date (of) Original (version creation): date first version of this file was created,	4ac21
Date (of) Read: date file was last opened for read access,	4ac22
Date (of) Write: date file was last written on,	4ac23

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Time (and date of) Archiving: time and date the file was archived (if at all).	4ac24
Time (and date of) Creation: time and date this version was created,	4ac25
Time (and date of) Last (dump): time and date this version of the file was last dumped on tape.	4ac26
Time (and date of) Original (version creation): time and date first version of this file was created.	4ac27
Time (and date of) Read: time and date file was last opened for read access.	4ac28
Time (and date of) Write: time and date file was last written on,	4ac29
(Note) NULL/Reverse means that you can specify the command-word Reverse, or that you can do nothing for this field and go on to the next command-word,	4ac30
Group (group by) NULL/Reverse No (grouping): Backs out of grouping; files will not be listed in categories; the Sort options can still be used to sort the whole list. Whether you specify Reverse or omit it has no effect on this DIROPT.	4ac31
Group (group by) NULL/Reverse Account: Files charged to the same account number will be grouped together, with groups sorted highest number first for Reverse,	4ac32
Group (group by) NULL/Reverse Archive Date: Files archived on the same date will be grouped together, with groups sorted most recent date first for Reverse,	4ac33
Group (group by) NULL/Reverse Archive Status: Files with the same archive status will be grouped together.	4ac34
Group (group by) NULL/Reverse Archive Tape: Files stored on the same archive tape will be grouped together, with groups sorted highest tape number first for Reverse.	4ac35
Group (group by) NULL/Reverse Creation (date): Versions created on the same date will be grouped together, with groups sorted most recent date first for Reverse.	4ac36
Group (group by) NULL/Reverse Deletion (status): Separates deleted from Undeleted files if you also ask for All (files), with deleted files first for Reverse,	4ac37
Group (group by) NULL/Reverse Dump Date: Files last dumped on tape on the same date will be grouped together, with groups sorted most recent date first for Reverse.	4ac38
Group (group by) NULL/Reverse Dump Tape: Files dumped on the same	



- Sort (sort by) NULL/Reverse Deletion (status): Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by files with the same deletion status. 4ac53 Sort (sort by) NULL/Reverse Dump Tape: Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by latest dump tape numbers, with highest tape numbers first for Reverse. 4ac54 Sort (sort by) NULL/Reverse Dump Time (and date): Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by time of last dump, most recent first for Reverse. 4ac55 Sort (sort by) NULL/Reverse Last (writer): Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by name of last 4ac56 writer. Sort (sort by) NULL/Reverse Length (in bytes): Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by size of file in bytes, largest file first for Reverse. 4ac57 4ac58 Sort (sort by) NULL/Reverse Number (of) Accesses. Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by number of times written and read, highest number first for Reverse. 4ac59 Sort (sort by) NULL/Reverse Number (of) Reads: Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by number of times read, highest number first for Reverse. 4ac60 Sort (sort by) NULL/Reverse Number (of) Versions (to keep): Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by number of versions kept for each file, highest number first 4ac61 for Reverse. Sort (sort by) NULL/Reverse Number (of) Writes: Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by number of times written, highest number first for Reverse. 4ac62 Sort (sort by) NULL/Reverse Original (version creation): Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by time and date the original version of this file was created, with most recent first for Reverse. 4ac63 Sort (sort by) NULL/Reverse Read (time and date): Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by time last read, most recently read first for Reverse. 4ac64 Sort (sort by) NULL/Reverse Size (in pages): Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by size of file in pages, largest file first for Reverse. 4ac65
- Sort (sort by) NULL/Reverse Write (time and date): Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by time last written, most recently written first for Reverse, 4ac66

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	disaster: See emergencies,	4ad
	disc: See pages,	4ae
	Disconnect Terminal OK: The command "Disconnect Terminal" breaks a connection with another terminal that either user has established with the "Connect Display" command or by the "Connect TTY" command, The "Disconnect Terminal" command must be followed by <ctrl=p> to restore the screens of both terminals,</ctrl=p>	4af
	TNLS example: BASE C: Disconnect C: Terminal OK: BASE C:	4af1
	See also: linking, Connect Display, Connect TTY.	4af2
	disk: See pages,	4ag
	display screen: (window): a television-like screen that displays your working text (part of the contents of some file). There are also various feedback areas occupying the top 6 or 8 lines of the screen. See also: terminals.	4ah
ĺ	file display area of the screen	4ah1
	TYPEIN feedback area: the area of the screen where the user sees the new text as she types it in. The top of the working text area is cleared as needed. When the string of new text is completed and the display is re-created, the new text is placed in the file where you indicated. See also: TYPEIN.	4ah2
	edges: See edges,	4ah3
	reading contents of files on DNLS screen: See viewing,	4ah4
	feedback areas=-	4ah5
	command feedback line: the area that stretches across your screen from the left side, just above the display area. This displays the command in process, along with prompts, noisewords, etc., if they're on. You can control your command feedback by using the Feedback and Prompt commands in the Useroptions subsystem. See also: Feedback (USEROPTIONS), Prompt (USEROPTIONS).	4ah6
	viewspec feedback area: the two lines in the upper corner that indicate the current status of certain viewspecs whose states are not obvious from the appearance of the text in the display area. Most of the time these are subdued, but they are highlighted when viewspecs are changed by entering codes.	4ah7
1	TTY=simulation window: See TTY=simulation,	4ah8
	current subsystem display: The name of the subsystem you're	

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currently in is usually displayed in an upper corner of the 4ah9 screen. See also: Subsystem. 4ai display=commands only: 4ai1 Accept Connect: See accept. 4ai2 Clear (TTY Window) OK: See Clear. 4a13 Connect to Display: See connect display. 4ai4 Delete Edge: See delete edge. Freeze Statement (at) DESTINATION VIEWSPECS OK: See Freeze. 4a15 4a16 Insert Edge: See insert edge. 4ai7 Jump commands in all subsystems: See jump. 4ai8 Move Edge: See move edge. 4ai9 Release: See Release. 4ai10 Reset Character size: See reset character. 4a111 Reset TTY window: See reset TTY. 4ai12 Set Character size: See set character. 4ai13 Set TTY window: See set TTY. 4a114 <LINEFEED> for DNLS: See DNLS. display=control viewspecs: DNLS only: u, v, f, o, p. See also: 4aj BUTTONS. f viewspec: recreate window if necessary (DNLS only): See f. 4aj1 4aj2 o Viewspec: frozen statements on (DNLS only): See o.

p Viewspec: frozen statements off (DNLS only): See p. 4aj4 u Viewspec: recreate display after each change: See u.

v Viewspec: defer recreating display: See v.

Distribute (for) CATEGORY (to) CONTENT OK: The Sendmail subsystem command "Distribute" allows you to specify to whom your mail will be sent and whether it will be sent for action or for information only. CATEGORY wants the commandword "Action" or "Information (only)". CONTENT wants a list of IDENTS separated by commas to show who will

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4aj5



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4aq

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Documentation: information about NLS. Documentation for NLS takes three forms: hardcopy guides, online versions of the hardcopy guides, and a central depository of information about NLS gueried online through the Help command. You are now reading either <documentation, help,=""> or a hardcopy glossary derived from it. Online guides may be found via the file <userguides, locator,=""> and reside mostly in the directory <userguides>. Hardcopy documentation is available. Ask your architect, address requests to the Ident Feedback, or write to Augmentation Research Center, SRI, Menlo Park, Calif. 94025 (415)326=6200 ext 3630.</userguides></userguides,></documentation,>
done: depending on what you are doing, there are several ways to complete or be "done" with an NLS task.
send: when you are ready to send a journal item. See send.
OK: when you are ready to have a command take place. See OK.
Quit: when you want to leave the subsystem you are in. See quit.
Logout: when you no longer want to work with the computer. See logout.
Command Delete: to erase a command not yet confirmed. See CD.
dot: See period.
down: The statement one level lower than and following a given

Document: any item over 1000 characters long in the Journal or

Sendmail subsystem. It is stored as a file in the Journal directory that has as its FILENAME its journal number. See also: message

statement (i.e., the top substatement). In the illustration (see illustration), statement i is one down from the statement 0; ia is two down; the down statement from ia would be ia itself (because it has no substatement). See also: illustration. 4as

DSEL:	Destina	ation	n SELel	ection:	See dest	inat	ion.	4at
DSS:	acronym	for	Dialog	Support	System:	see	dialog,	4au

(SENDMAIL).



Е

e Viewspec: level of referenced statement: "Show all statements at the same level as where you are and all higher level statements. Do not show any lower level statements." If you are at a third level statement, three levels would be shown. Viewspece is often combined with b to add levels.

E Viewspec: paginate when printing (TNLS only): "Paginate when printing," TNLS will format your text into pages-=numbered, separated by a cutting line consisting of ---'s, and with margins--when printing at the terminal via any Print command. This is a default viewspec. See also: Capital=F.

echo: A response from the system to something you typed,

edges: imaginary lines that can divide your display window into as many as 8 parts so you can view something different in each part. You can add to the number of views you can have of the same and/or different files by inserting edges with the BASE subsystem's Insert Edge command. To get more windows, insert another edge. To change the relative shape or size of adjacent windows, use the Move Edge command. To get rid of a window, use the Delete Edge command. Subsequent operations in NLS will take place in one of these windows at a time, whichever one contains your cursor when you give the final OK.

See also: Insert Edge, Move Edge, Delete Edge, cursor.

Emptying windows: See Emptying.

edit: See writing.

TNLS example:

Edit: Edit Statement (at) DESTINATION EDITSTRING OK: The command "Edit Statement" (in TNLS only) allows you to move through a statement character by character, changing as you go by means of a set of special editing characters. (It resembles QED and TECO.)

BASE C: Edit C: Statement (at) A: 035 T:exa<new>mple edit BASE C:

Effects: See command, At confirmation, the remainder of the old statement copies to the new one; the new one then replaces the old.

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EDITSTRING: any combination of the following control-characters:	5£3
<ctrl=f>: copies one character.</ctrl=f>	5£3a
<ctrl=u>: copies through end of old statement,</ctrl=u>	5£3b
<pre><ctrl=z>c: copies characters up to and including c: the next occurrence of the typed=in character following it,</ctrl=z></pre>	5f3c
<ctrl=0>c: copies characters up to but not including c: the next occurrence of the typed=in character following <ctrl=0>,</ctrl=0></ctrl=0>	5f3d
<ctrl=s>: you skip one character,</ctrl=s>	5£3e
<ctrl=g>c: skips characters up to and including c: the next occurrence of the typed=in character following <ctrl=g>.</ctrl=g></ctrl=g>	5£3£
<ctrl=p>c: skips characters up to but not including c: the next occurrence of the typed=in character following <ctrl=p>,</ctrl=p></ctrl=p>	5£3g
<pre><ctrl=e>TYPEIN<ctrl=e>: Enters into the new statement: the character string (TYPEIN) between the two <ctrl=e>s without affecting where you are in the old statement.</ctrl=e></ctrl=e></ctrl=e></pre>	5£3h
<pre><ctrl=h>: backspaces (deletes) one character: in the new without affecting where you were in the old statement.</ctrl=h></pre>	5£31
<pre><ctrl=w>: backspaces (deletes) one word: in the new without affecting where you were in the old statement,</ctrl=w></pre>	5£3j
<cirl=q>: All editing prior to pressing this key is voided, moves you to the beginning of the statement.</cirl=q>	5£3k
<pre><ctrl=n>: one=character "restorative" backspace: it deletes the last character in the new and moves you back one character in the old statement,</ctrl=n></pre>	5f31
<ctrl=r>: reprints the existing part of the new statement,</ctrl=r>	5£3m
See also: editing, control (for control characters).	5f4
diting commands: See commands (BASE),	5g
diting: See writing.	5h
ditor: the old name of a NLS subsystem changed to Base: See base,	51
ffects: The note under the entry for many commands describing special side=effects or after=effects of that command, To see just the description of effects of a command you know, type the commandwords followed by the word "effects" in the Help command.	5j
mptying windows: describes a window display that has nothing in it	



except the word "empty," The window will remain this way until you put something there by loading a file, or by using any of the Jump commands from an old window to the new one (have your cursor located in the destination window when you confirm the command). To empty a full window (get rid of its file contents and have it display "empty"), use the Clear Window command, See also: Load, Clear Window, Jump.

end: The last statement in the branch with a given statement as its source. The end from statement 0 is always the last statement in the file. In the illustration, the end from statement 3 is 3c1a; the end from 1b is 1b3. See also: illustration.

Entering DNLS: See to=get=DNLS.

entering=NLS: (How to get NLS): NLS runs as a subsystem of TENEX. when TENEX is ready for commands, you will see an at sign ("@") at the margin. Type "NLS" followed by carriage return. When you first enter NLS, the system loads for you a special file called your initial file and you are in the BASE subsystem. Unless you have altered your user options, the herald of the BASE subsystem, "BASE, " will appear at the left margin. Then you may read or write on files. See also: Login, username, USEROPTIONS, reading, writing.

initial file: see initial.

Herald: See heralds,

For terminals with the Display NLS capability: See DNLS,

If you're not on a TI (upper/lower case) or TTY=35 or local tasker: See terminal=type.

entering systems -- a general orientation: See systems.

Entry Subsystem/Program ...: The Useroptions' subsystem command "Entry" allows you to specify the subsystem or program you will be using when you enter NLS. see also: Include (USEROPTIONS), Show Default (USEROPTIONS), programs, subsystem.

Subsystem: Entry Subsystem SUBSYSTEM OK: The subsystem (see SUBSYSTEM) you specify will be the one you are in when you enter NLS. Specify a different subsystem to change your current entry subsystem. Use the useroptions' Show Subsystems command to see your current default subsystem and program status. See also: Entry Program (USEROPTIONS), include (USEROPTIONS).

Program: Entry Program CONTENT OK: The program at the FILEADDRESS you specify for CONTENT will be the one you are in when you enter NLS. Use the useroptions' Exclude command to get rid of subsytems and programs. Use the useroptions' Show Default command to see your current default subsystem and program status. See also: Entry subsystem (USEROPTIONS), Include (USEROPTIONS).

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end of line: This is one character which is equivalent to a <EOL>: 5q <CR> followed by an <LF>. erase: See delete, <CTRL=A>, <CTRL=W>, 5r error messages: messages that appear while you are executing a 5sprocess. They usually indicate a software bug. NLS display error: This by itself can usually be solved by creating a new window using the Insert Edge command. If there 5s1 are other problems, see emergencies. 552 Reporting bugs: See reporting. 553 Sendmail errors: See error (SENDMAIL). error messages in the Sendmail subsystem: See initialize. 554

<ESC>: Escape and <CTRL=F>: The keys that automatically finish
typing a filename or directory when you have typed enough characters
to make the name unique. Also called <ALT>. If you have not typed
enough characters to make the name unique or the file does not
exist, "<ESC>" will echo. Escape always calls the highest version
number. You may use \$ followed by SPACE in a link to represent
Escape. <CTRL=F> works as Escape in a filename for a single part
only; you then continue with the next part. See also: fileaddress.

escape: See <ESC>,

Evaluate CONTENT OPERATOR OK: The Calculator subsystem command "Evaluate" will evaluate the number you specify in CONTENT and type the total. In addition, you can specify an OPERATOR (see arithmetic operators) or skip it by hitting CA when prompted by OK/C: . If you specify an operator, the accumulator will then be correspondingly operated on in relation to the total and the result will replace the previous accumulator value. The total followed by an asterisk will be entered in the Calculator file. See also: operators, accumulator, file (CALCULATOR), CONTENT, OK.

example: Examples have been written for some TNLS commands. Online in the Help command you may see a TNLS example by typing the command name followed by the word TNLS.

Exceptions for journal and program files: If you give a filename containing nothing but a number and it is not found in your current directory, then it is assumed to be a Journal file and the Journal is searched.

If you are using the programs subsystem command "Load Program", then if the program is not found in your CONNECTED (not login) directory, then the directory "PROGRAMS" is searched for the program. See loading (PROGRAMS).

Exclude Subsystem/Program ... : The Useroptions subsystem command "Exclude Subsystem/Program" allows you to delete subsystems and

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programs that are available to you when you enter NLS. See also: Include (USEROPTIONS), show Default (USEROPTIONS).

Subsystem: Exclude Subsystem SUBSYSTEM OK: The subsystem (see SUBSYSTEM) you specify will not be automatically loaded when you login. Use the Useroptions Include command to add to subsytems and programs available when you login. Use the Useroptions Show Default command to see your current default subsystem and program status. See also: Exclude (USEROPTIONS), Include Program (USEROPTIONS).

Program: Exclude Program CONTENT OK: The program at the FILEADDRESS you specify for CONTENT will NOT be automatically loaded when you login. Use the Useroptions Include command to add to subsytems and programs available when you login. Use the Useroptions Show Default command to see your current default subsystem and program status, See also: Exclude Subsystem (USEROPTIONS), Include (USEROPTIONS).

Execute (command in) SUBSYSTEM: The command "Execute" allows you to give one command in a different subsystem and immediately returns you to the subsystem you were in.

TNLS example:

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BASE C: Execute (command in) C: Useroptions USER C: Show C: Viewspecs OK: Viewspecs: levels: ALL, lines: ALL, hjnpuzACEHJLP prompting: ON BASE C:

Effects: After typing "Execute" and a subsystem name, no OK is required. You can immediately begin the subsystem command. You can use OKINSERT or OKREPEAT to OK the command and you will remain in the subsystem you have gone to. As soon as you have CONFIRMed with Command Accept (or given a Command Delete), you will be returned to the subsystem you were in.

To go to another subsystem and stay there, See: Goto, See also: Quit,

executing program files: See running (PROGRAMS).

Expanded distribution: In using the Sendmail subsystem, when an ident belongs to a group, the group may by default have restricted distribution. That is, items sent to or from it are sent only to the co-ordinator. In either case you may distribute an item to the whole group by putting an uparrow (*) before the ident.

Restricted distribution: See restricted (SENDMAIL).

Expedite OK: The Sendmail subsystem command "Expedite" marks expedite on an item, but at present nothing in NLS reads that mark, 5ab

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5z1

5z2

5z3

5all

5aa

5aa1

5v2

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5y1

5y

E 5ac expressions: arithmetic expressions: See evaluate. Expunge: to completely erase deleted files from the running system. peleted files must be expunded before their disk pages are free. After files have been expunged they cannot be undeleted or retrieved, unless you try to expunge the file in which your current marker resides. Occasionally if the entire system is low on disk pages, it will automatically expunge your deleted files. See also: 5ad undelete. Directory: Expunge Directory OK: The command "Expunge Directory" permanently erases from the system all deleted files in the directory you logged in under or subsequently connected to (unless the files are being held open by someone using them). 5ad1 See Expunge. TNLS example: BASE C: Expunge C: Directory OK: 5ad1a BASE C: 5ad1b Connect to Directory command: See Connect Directory. 5ad1c Delete File command: See Delete File. EXTENSION; The characters that follow the NAME of a file to signify to you and the system how to handle the file. The extension may contain up to 39 letters, digits, dashes, and a few other special characters. It must be immediately preceded by a period and immediately followed by a semicolon. The FILENAME EXTENSION 15 followed by the FILENAME VERSION. The filename's extension field for an NLS file is .NLS; Other extensions listed below denote other 5ae functions. .PC; designates: this file is a modification file: See 5ae1 modification. .TXT; represents: a sequential file unloadable in NLS. See 5ae2 sequential. 5ae3 user programs extensions: See loading.

External (names link file address) CONTENT OK: This useroptions subsystem command wants the ADDRESS of a file containing named statements containing links, NLS can then go there searching for an externalname, See: externalname,

EXTERNALNAME: &statementname (preceded by ampersand): Whenever an external name is specified in an address or via the Jump to Name External command, it will first Jump to Name Any on the file in which you are located; if it is not found, will go to the external name file defined with the Base Set External command; if it finds the name there, it will jump to the link following the name. If no external name file has been defined for the file you are searching,

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5af

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the system will look in the file you specify in the Useroptions External (names ...) command. See also: JUMP NAME, SET EXTERNAL, External (USEROPTIONS), STATEMENTNAME, ADDRESS.

E

6 f Viewspec: recreate window if necessary (DNLS only): "Re-create display screen immediately." Viewspec f is often used when viewspec v, which suppresses the normal re-creation of display, has been set. Viewspec f has only a one-time effect. After its use, whichever of codes u or v was previously in force remains so. Viewspec u re-creates the display whenever the view or contents of the file(s) change. Use this to see the new view after typing viewspecs with mouse buttons. See also: u, v, viewing, re-creating, capital-F. 6a F Viewspec: TNLS: no paging/DNLS: recreate display: TNLS output by Print commands at your terminal will not be separated by pages. To turn pagination on, use viewspec E. See also: Paginate, Print, Capital=E. In DNLS use capital=F to be sure your screen recreates. See also: f. 6b FDBK: See reporting. 6C FEED: See feedback. 6d feed: line feed: See lf. 6e FEEDBACK, used in two senses: 6f Feedback command in the Useroptions subsystem: to control what the system types back as you use commands. See feedback (USEROPTIONS). 6£1 Feedback mechanism for Users to report bugs, complaints, and recommendations to the people who maintain NLS. They will answer you. See reporting. 6£2 Feedback FEEDSPECS OK: The Useroptions command "Feedback" turns noisewords off and on. For your TNLS sessions, you can specify how many letters of the commandwords and noisewords appear, or indent the beginning of each command specification. 6g TNLS example: USER C: Feedback C: Terse OK: USER C: Goto C: Base OK: EDIT C: Append C: Statement A: 2 A: 1 T: and EDIT C: 6q1

FEEDSPECS: prompted by C: asks you to type in Terse, Verbose, Length CONTENT or, Indenting CONTENT. Verbose, which is the

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default, gives you noisewords, and Terse, shuts off noisewords,	6g2
Affects TNLS only = Length CONTENT, Indenting CONTENT: To limit both noisewords (if they're on) and completion of commandwords upon recognition (independently), use Length and give the number of characters you want for each; otherwise, all characters up to 50 will appear. To indent the beginning of each command, use Indenting and give the number of spaces to be indented; otherwise commands will not be indented. CONTENT wants you to give a number either by TYPEIN or pointing.	6g2a
See also: command, command recognition, commandword, noiseword, TNLS, pointing, TYPEIN, CONTENT, Useroptions Reset Feedback, Useroptions Show Feedback,	6g3
ff: See formfeed,	6 h
field: a portion of a STRING of CHARACTERS that has a special meaning defined by its format and/or location. Such as:	61
Link fields: See link,	611
or,	612
FILEADDRESS fields: See fileaddress,	613
File: The basic unit in a directory. An NLS file is made of one or more statements that can be arranged at different levels in an outline or tree form. This structure is called "hierarchy" and the interrelations between statements are called Structural Relationships. Type the word "illustration" for a picture of file structure. Create an empty file with the Create File command in the BASE subsystem. Existing files can be accessed with a FILEADDRESS wherever A: appears. View different levels of structure using viewspec clipping. See also: privacy, handling, STRUCTURE.	6j
illustration of file structure: See illustration,	6 1 1
structural relationships within files: See structural.	6 1 2
Files, types of: See Files,	613
return ring for files: See return,	6j4
size limits: See size,	6j5
sendmail subsystems File command: See file (SENDMAIL),	6j6
FILE as part of a command: See fileaddress,	617

F

file=handling: See also: commands(archiving), commands(modifying), commands under each subsystem, copy file, delete file, delete modifications, undelete file, undelete modifications, move file. 6K handling whole files: NLS provides many commands that deal with whole files allowing you to make changes, erase changes made, send files to people, delete them, and transfer files from one directory or site to another, and return to recent files you have 6k1 accessed. 6k2 Copy Sequential File: Copy See copy sequential. 6K3 Create File CONTENT OK: See Create. 6K4 Load File: See load. 6k5 Output Assembler file: Output See output assembler. Output Sequential file: Output See output sequential. 6k6 Show File Modification Status: See Show File modification (BASE). 6k7 6k8 Show File Status: See show file status (BASE). 6k9 Set Temporary Modifications: See Set Temporary. 6k10 Renumber SIDS (in file) OK: See Renumber. 6k11 Reset Temporary Modifications: See Reset Temporary. 6k12 Update File: See Update. 6k13 Verify File OK: See Verify.

file=return ring: See return,

file: Calculator file: When you first enter the Calculator, it finds or creates a file named "CALC-IDENT, NLS" in your directory. After creation, this file is loaded whenever you enter the Calculator. This file records the history of your work like the tape of an adding machine. It saves each arithmetic operation and records subtotals and totals. All items are first level statements. A line of asterisks marks the beginning of each session. The Calculator file is a standard NLS file and may be printed like any other NLS file. The Calculator file should not be edited outside the Calculator subsystem. With the Write command, it may be copied to another NLS file which you may freely edit.

File: DESTINATION OK: The Sendmail subsystem command "File" allows you to specify a file as the material to send. Any recorded piece of mail over a certain length is kept in the Journal in a file with the sendmail number as the FILENAME. The contents of Journal files are never changed. In both TNLS and DNLS, hitting CA will send the

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file in which you are currently located. Alternatively, you can type the address of any file.

Workfile: SENDMAIL Workfile: a file that is ordinarily invisible and that contains the current status of your sendmail item. If you have completed sending an item, this file is empty. To clear it out, use the initialize command in the sendmail subsystem. See also: SENDMAIL, initialize (SENDMAIL).

FILEADDRESS: SITE, DIRECTORY, FILENAME,: a string of names that identifies a specific file in a specific directory at a specific site. A filename may be preceded by the name of a directory which may be preceded by the name of a site as shown above. If you use FILEADDRESS as part of an ADDRESS, it must come first and be followed by a comma as above. A comma is unnecessary after the FILENAME in those instances when only a FILEADDRESS is called for, not a whole ADDRESS, such as in the Load File command. FILEADDRESS may include stars or Alt Mode (ALT/ESC) for automatic recognition. See also: link, ADDRESS, pointing, return, altmode, site, directory, FILENAME.

recognition and defaults: See recognition.

FILELINK: See fileaddress.

FILENAME: Each file in the system has a FILENAME which is divided into parts. A period (,) and a semi colon (;) divide the parts like this: name.extension; version. In most cases, you need not specify the extension or the version. Each part except the version can be up to 39 characters. When you have typed enough characters to make a single part unique, <CTRL=F> will complete that part. <ALT> will complete all parts. NLS files always have the extension "NLS". Version numbers go up when you update. See also; stars, defaults, PROTECTION.

.EXTENSION: See EXTENSION.

filenames in TENEX: TENEX filename fields are different from NLS FILEADDRESSES in that the directory is delimited by angle-brackets instead of commas. See also: FILEADDRESS, filename.

Filereturn (ring entries) CONTENT OK: The Useroptions' subsystem command "Filereturn" allows you to change the maximum size of your File Return Ring, The default is 10, The maximum allowed is 25. CONTENT wants the Number of entries for the ring. Each location remembered on your ring takes up space and too many could slow you down or cause problems. For this reason we recommend no more than 10 except for special cases.

Effects: The commands won't take effect until you create a new window in DNLS or until your next NLS session. They will remain

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in effect for subsequent sessions until you change the size again,	651
See also: statement return, file=return, CONTENT, Useroptions Show Jump, Useroptions Reset Jump.	652
Files: types of, See also: file,	6t
Archived file: See Archived.	6t1
bad file: See bad,	6t2
deleted file: See delete file.	6t3
expunged file: See expunge.	6t4
initial (IDENT) file: see initial,	6t5
MESSAGE.TXT; TENEX file: See MESSAGE.	6t6
modified file: See modification,	6t7
RSEXEC file: See RSEXEC.	6t8
sequential file: See sequential,	6t9
SENDMAIL file: See file (SENDMAIL),	6t10
FILTER (viewspecs:) pick certain statements to be operated on. The FILTER part of a command must sometimes be preceded by <ctrl=u> and followed by LEVELADJUST. Enter any combination of the following viewspecs: for level-=a, b, c, d, e, w, x, for content-analysisi,</ctrl=u>	

j, k, or for sequence generator == 0, P. For instance, if a STRUCTURE to be copied is a branch and you "FILTER" it through viewspecs e and b, only the top statement and one more level of the branch will be copied. When a filter doesn't pass a statement, the substatements move up a level. Line clipping viewspecs currently do not have effect in FILTERs.

content analysis and sequence generator viewspecs: See content analysis.

commands that use FILTERS: The Print and Jump commands are always affected by level=clipping viewspecs and the currently set content=analyzer when viewspecs i or k are on. The following commands can optionally make use of filtering by viewspecs for the execution of that command only. See also: CLIPPING, viewspecs, i, k.

Copy STRUCTURE:See copy structure.6u2aDelete STRUCTURE:See delete structure.6u2b

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6u

6u1

6u2

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Transpose STRUCTURE: See transpose structure,
rching for places in files: See search,
L10 "FIND" construct: See L10,
a recognition mode where all commandwords will be recognized you type the first three letters. You may NOT type more rs, because they will go into the next field.
(Case): The command "Force" allows you to capitalize or italize or make first letter capitals in the situations listed . You can also switch from the default which capitalizes thing to a different mode. See also: force.
e: Force (case) Mode CASEMODE OK: CASEMODE = Upper or Lower First (letter upper). With the Force (case) Mode command you y choose whether subsequent Force STRING and Force STRUCTURE mmands make all letters lower case, capitalize all letters, or pitalize only the first letter of every word.
Effects: The Force case STRING and Force case STRUCTURE commands will work in the CASEMODE you choose here (unless they're overridden with the optional temporary CASEMODE in that command) until this command or Reset Case mode is used again.
CASEMODE: Upper, Lower, or First (letter upper): Upper sets all alphabetic characters to upper case. Lower sets all alphabetic characters to lower case. First (letter upper) sets the first alphabetic character only of all words to uppercase. [Side=effect: if you Force Text in First letter upper and the text starts in the middle of a word, the first character of the text (in the word it begins in) will be capitalized.] See also: Word.
See also: Force, Reset Case,
ING: Force (Case) STRING (at) DESTINATION [CASEMODE] OK: SEMODE = Upper or Lower or First (letter upper) This group of Force case commands changes the case of aracters in the chosen STRING according to the case mode

find:

F

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the L10

Substitute: See substitute.

Move STRUCTURE: See move structure.

Fixed: a after you letters,

Force (Cas decapital below, Y everythin

STRING: CASEMO This charact currently in effect,

Effects: The mode has been set by default to "upper" (all



6x1

6x1a

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6u2c

6u2d

6u2e

6v

6v1

6V2

6w

6x

6x1c

characters capitalized), or by the user with the Reset Case Mode command (to Upper) or Force case Mode command (to Upper or Lower or First letter upper). The most recently set mode determines the result of this command unless you use the [CASEMODE] option to temporarily override it. You can also change the case of letters in a whole statement or branch, 6x2a etc., with the Force case STRUCTURE commands. [CASEMODE]: precede by the OPTION character <CTRL=U>: See 6x2b casemode. ssee also:@Face=5 Force Mode, Reset Case, Force STRUCTURE. 6x2c STRING: Character, Text, Word, Visible, Invisible, Number, or Link. See string. 6x2d STRUCTURE: Force (Case) STRUCTURE (at) DESTINATION [CASEMODE] OK: CASEMODE = Upper or Lower or First (letter upper) This group of Force case commands changes the case of characters in the chosen STRUCTURE according to the case mode currently in effect. 6x3 Effects: The mode has been set by default to "upper" (all characters capitalized), or by the user with the Reset Case Mode command (to Upper) or Force case Mode command (to Upper or Lower or First letter upper). The most recently set mode determines the result of this command unless you use the [CASEMODE] option to temporarily override it. You can also set the case of parts of statements with the set Case STRING 6x3a commands. [CASEMODE]: precede by the OPTION character <cTRL=U>: See 6x3b casemode. See also: Force Mode, Reset Case, Force STRING. 6x3c STRUCTURE: Statement, Branch, Plex, or Group: See structure. 6x3d form: 6Y

- form feed==a special character used in printing: See formfeed, 6y1
 - formatting==NLS conventions for arranging a page: See format, 6y2

format conventions: the way NLS arranges a printed page unless the user specifies otherwise. By default, when you print using the output command, or the TNLS command "Print", NLS formats your output into pages with text 65 characters wide, and 55 lines high, with statements indented 3 spaces for each level and certain other conventions. Directives may reset these values in the Output Printer Command. The Useroptions subsystem will reset them in Output Quickprint and Print commands. The user-subsystem "Format"

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helps format files for the Output Printer command, See also: formatting, Format (CALCULATOR),	6z
directives: See directives.	6z1
Format user-subsystem: See format,	6z2
Output Processor: See output,	6z3
Output Quickprint: See quickprint,	6z4
Print command: See print,	625
Useroptions subsystem: See useroptions,	6Z6
Format: The Calculator subsystem command "Format" allows you to specify the format of numbers stored in your Calculator file and accumulator values stored in other NLS files. The default number format is right-justification, 2 digits to right of the decimal and up to 9 on the left, no commas, and no dollar sign. See also: file (CALCULATOR).	640
Commas: Format Commas ANSWER DK: If you type y or CA for "Yes" commas will be placed as so: 999,999,999,9999. If you type n for "No", no comma will be inserted.	6a01
Dollar: Format Dollar (signs) ANSWER OK: If you type y or CA for "Yes", dollar signs \$ will be placed in front of each number. If you type n for "No", they will not be inserted.	6a@2
Left: Format Left (justify) OK: After using this command, numbers will appear with no spaces preceding them, see also: Right (CALCULATOR),	6a@3
Places: Format Places (to the) Right/Left CONTENT OK: The total number of printing digits allowed in a number is 11. Within this limit only 5 can follow the decimal. If the user attempts to enter a number containing more digits to the left of the decimal point than the current format specifies or, if the current accumulator rises above the current format specification, an error message is printed, the operation is not performed, and the places is changed back to the default of two following the decimal.	
	6a@4
Right: Format Right (justify) OK: After using this command, numbers will appear with enough spaces precedeing them for	
billions in places, See also: Left (CALCULATOR),	6a@5
Format: The user-subsystem "Format" provides tools to help you work with Output Processor directives. See the "Output Processor Users Guide" available by request to FEEDBACK for a complete listing of	
directives. Format contains the following commands. See also: output, directives.

Delete (directives in) STRUCTURE (at) DESTINATION OK: The Format user=subsystem command "Delete" removes all of the Output Processor directives in the STRUCTURE you specify.

Delimiters alternative: If you previously changed them: If directives in the structure you are working on use delimiters other than period and semicolon because you had changed the delimiters in a statement preceding the specified structure, (e.g.: DLD=... DRD= ...) you must type the "Delimiters" commandword before you type OK.

Delete (directives in) STRUCTURE (at) DESTINATION Delimiters (left) CONTENT (right) CONTENT OK

Typein or point to the characters which you wish the system to search for as left and right directive delimiters. If the delimiters are changed in the file, the program will understand and search for the new delimiters.

Insert Format (at) DESTINATION (using Format #) CONTENT: (Title:) CONTENT

(Author Ident(s):) CONTENT

(Journal Number:) CONTENT (Formatting File)

> The Format user-subsystem command "Insert" adds directives and any necessary special characters to a file according to a given predesigned format. You must first point to the file. It then lists your choice of formats. Printed Samples of all the formats are available through FEEDBACK. You type the number of the desired format.

Effects: Unless the file to be formatted is a Journal file, it asks you to type the title of the document, a list of author idents (which may include organization and group idents), and finally the Journal number (in case you have a preassigned number that you wish put on the file). To skip any of these fields in TNLS type CA, in DNLS type <CTRL=N>. The command will insert the directives necessary to produce the format you chose. It may insert directives in the origin statement, in every level one statement, and in some cases in the statement back from every level one statement. It also creates a title page as the last level=one branch in the file. The title, authors, and Journal number appear in the title page and in some cases in header or footer directives in the origin statement.

modifying the formatted file: The program only inserts text in the file. You may edit any of it as you see fit. For example, if one of the authors does not have an ident, you may add his/her name to the title page afterwards. Or you may edit the directives to modify the format. (You should feel fairly confident of your understanding of the Output

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6aa2

6aa2a

Processor before you attempt to edit the more complex of these formats!) See directives. 6aa2a1

Formats designed for COM: Most of the formats were designed for Computer Output to Microfilm (COM). The intent is to make it very easy for users less experienced with the Output Processor to take advantage of COM's capabilities. 6aa2b

How to have your format and read it too!: To be safe you should use the "Format" command on files which previously have no directives in them, Since directives can get in the way of online reading, you may want to:

-Update File -Execute (command in) Format Insert Format -Output COM or Output Printer -Delete Modifications

This last command undoes what the Insert Format command did. You are then left with a clean file. You must repeat the "Insert Format" command to prepare it for "Output" a second time. See output printer file.

Set Directive (Filter) OK: The Format user-subsystem command "Set Directive" sets your current content-analyzer filter to one which only shows statements with Output Processor directives in them. You may then use viewspec i to turn the filter on, and viewspec j to turn it off (show everything).

Delimiters alternative: If directives in the file you are working on use delimiters other than period and semicolon (because you changed the delimiters in a preceeding statement), you must use the command:

Set Directive (Filter) Delimiters (Left) CONTENT (Right) CONTENT OK:

Typein or point to the left and right directive delimiter characters which you wish the program to use. Each new view of the file (a Jump or Print) through this filter begins with the assumption that the directive delimiters are these new characters. Changes in the delimiters by subsequent directives in the view, will not keep them from being viewed. 6aa3a

Reset Directive (filter) OK: The Format user=subsystem command "Reset Directive" sets your current content=analyzer filter to what it was before the Set Directive (filter) command. This only works for one window in DNLS (be careful if you have inserted an edge to split your window). 6aa3

6aa4

6aa2c

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F

formatting views D, G, H, I, J,	specs: change layout: y, z, A, B, g, l, h, m, n, C, K, L . Compare hardcopy format.	6ab
y viewspec:	blank line between statement on See y.	6ab1
z viewspec:	blank line between statement off See z.	6ab2
g viewspec:	show branch only See g.	6ab3
l viewspec:	show plex only See 1.	6ab4
h viewspec:	show all branches See h.	6ab5
m viewspec:	statement numbers/SIDs on See m.	6ab6
n viewspec:	statement numbers/SIDs off See n.	6ab7
A viewspec:	level indenting on See A Viewspec.	6ab8
B viewspec:	level indenting off See B Viewspec.	6ab9
C viewspec:	show statement names See C Viewspec.	6ab10
D viewspec:	don't show statement names See D Viewspec.	6ab11
E viewspec:	paginate when printing (TNLS only) See E Viewspec.	6ab12
F viewspec: Viewspec,	TNLS: no paging/DNLS: recreate display See F	6ab13
G viewspec:	statement numbers/SIDs right see G viewspec.	6ab14
H Viewspec:	statement numbers/SIDs left See H Viewspec.	6ab15
I viewspec:	show SIDs, not statement numbers See I Viewspec,	6ab16
J viewspec:	show statement numbers, not SIDs See J Viewspec,	6ab17
K viewspec:	statement signatures on See K Viewspec,	6ab18
L viewspec:	statement signatures off See L Viewspec.	6ab19

formfeed: a special character that causes the equivalent of a printing device to position the first character after the form feed character to be at the top of a new page. The character <CTRL=L> is often used as the special form feed character.

Forward (item number) CONTENT (for) ACT/INFO (only to) CONTENT OK: The Sendmail subsystem command "Forward" allows you to re-send a journal item with the NUMBER you specify for the first CONTENT to the IDENTS you specify for the second CONTENT, ACT/INFO wants either the Command-Word Action or Information, See also: number (SENDMAIL).

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6ac

The Send command: See send.

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,fr file return: an address element that allows access to a previous file in your file return ring. A ".fr" means the same as Jump to File Return. A ".fr" in an ADDRESS moves you back through the ring. You can precede the f with a number to jump back more than one position. EXAMPLE: the element .2fr moves back 2 positions (from the current one) in the file return ring. The final viewspecs in effect there are also restored. Try this after commanding "Jump". See also: VIEWSPECS.

Effects: to copy a branch from the last file you had loaded to your presently loaded file, use ,fr in the SOURCE part of the Copy command.

Freeze Statement (at) DESTINATION VIEWSPECS OK: The DNLS command "Freeze" keeps the statement at the DESTINATION you specify on the upper part of the screen (when viewspec o is on). You may continue to use other NLS commands in the lower part of your screen. The VIEWSPECS field in this command wants formatting viewspecs to define the format of the frozen statement. It does NOT allow turning viewspec o on; you must do that separately. If you freeze more than one statement, they all will show when you turn viewspec o on. The Release command "thaws" frozen statements. See also: o, Release, DISPLAY=CONTROL. Compare SpLIT:

frontend: part of a software system the user interacts with, It dispatches the users' requests to the appropriate backend tool.

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In

only, use 1.

Viewspech does NOT limit operation to one branch. To show one plex 7a

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G Viewspec: statement numbers/SIDs right: "Place statement identification at the right margin." If viewspec m is on, and you turn G on, whichever type of identification is currently on (viewspec I==SIDs or J==statement numbers) will appear at the right margin after each statement, Viewspec H turns G off and shows identification at the left of statements, Example: the string mGJ will show statement numbers at the right margin. See also: Statementnumber, SIDs, m, Capital-I, Capital-J, Capital-H.

G

g Viewspec: show branch only: "Show only the branch of the statement you are at." Only the addressed branch will appear.

TNLS, this affects the operation of Output and Print commands.

Getting a number: Using Sendmail's Reserve command gets you a preassigned number, which can then be used at a later time. Using the Number command gets you the number for the item you are currently sending in the Sendmail Subsystem. See also: number (SENDMAIL), reserve (SENDMAIL).

Getting Help: 1) strike ? at any point in an NLS command for a list of alternatives currently available to you. > 2) hold down the <CTRL> button and hit q, at any point, for an explanation of your current alternatives. Method 2 puts you into the Help command repeat mode until you hit CD (Command Delete <CTRL=X>) See also: help.

questionmark: See questionmark.

<CTRL=Q>: See <CTRL=Q>.

Getting just the syntax of a command <CTRL=S>: If you hold down the CTRL key and type s, you will get the command syntax for the command which you are currently using.

When help fails: Novices should feel free to connect to experienced users and ask questions. Keeney, Kelley, van Nouhuys, Beck, and Bair are particularly open to connecting. Also, sendmail to ident FEEDBACK and explain what went wrong.

connecting: See connecting. sending mail: See sendmail.

Goto (subsystem) SUBSYSTEM OK: The command "Goto" puts you into a

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7d4a

7d4b

7b

different subsystem where you can proceed to specify commands in that subsystem. After the OK, you will get the herald of the new subsystem. The Goto commands adds the subsystem to your subsystem stack. If you only want to execute one command in another subsystem, use the Execute command. The Quit command takes you back in turn to each previous subsystem. You can use the "Quit To" command to specify a specific subsystem in your stack that you want to return to. See SUBSYSTEM.

TNLS example: BASE C: Goto (subsystem) C: Programs OK: PROG C:

grammar: a tree structured data structure that represents allowed user interactions. See CML.

Graphic: a picture drawn using the marking capabilities of a work=station.

greaterthan symbol: > current subsystem. See also: SUBSYSTEM, anglebrackets.

Group (from) SOURCE OK: The sendmail subsystem command "Group" allows you to send a Group of branches or statements. Specify the Group to be mailed by pointing to the first and last statement for SOURCE. VIEWSPECS do not matter.

Definition of a Group: See group.

GROUP-IDENT: A group IDENT is a shorthand way of specifying many users' IDENTS. Several users who are working together may form a group that has one single IDENT. Messages sent to the GROUP-IDENT will then go to all the members.

Group: a series of consecutive statements (including all their substructure) at the same level. In the illustration, the group defined by 3b and 3c consists of branches 3b and 3c (i.e., statements 3b, 3c, 3c1, and 3c1a). After pointing to the beginning of a group, an ADDRESS is needed to point to the end of the group.

Group-Text: pointing: Two points are required to specify a group or a text, one at its beginning and another at its end. After the first point has been specified NLS will expect the second. If you make a mistake, you will be told "invalid text selection" or "illegal group" and you must respecify the points. See also: pointing, group, text.

illustration of file structure: See illustration.

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h Viewspec: show all branches: "Show all branches." Normally, when you Print or Output a file, or display something in DNLS, all branches of the file appear. Viewspec h is used to turn off viewspec g (show branch only) and l (show plex only). This is a default viewspec.	8 8 a
H Viewspec: statement numbers/SIDs left: "Place statement identification at the left of each statement." This viewspec takes effect when viewspec m is on. Whichever type of identification is currently on (I==SIDs or J==statement numbers) will appear at the beginning of each statement. Example: if you have SIDs on at the right and want to change to statement numbers at the left, use the string HJ. This is a default viewspec. See also: Statementnumber, SIDs, m, Capital=I, Capital=J, Capital=G.	86
Handbook: A complete reference work of all systems and activity at the Augmentation Research Center at a given time.	8c
 handling whole files: NLS provides many commands that deal with whole files allowing you to make changes, erase changes made, send files to people, delete them, and transfer files from one directory or site to another, and return to recent files you have accessed.	8 d
creating files: See create.	8d1
return ring among files: See file=return.	8 d 2
status: The Show File Status command See status.	8d3
name: Fileaddressing: See fileaddress,	8d4
modification file: See modification,	8 d 5
commands: list of Base file=handling commands: See file=handling,	846
Hardcopy printing and formatting: You may print your NLS files at your terminal, at a line printer at ARC, at a printer at your site if it is available, or through COM (Computer Output to Microfilm), COM offers offset with graphic arts quality type. A set of directives you put in your text allows you to design various formats, See also: offline (SENDMAIL),	8e
printing on your terminal: See printing.	8e1
printer: printing on your computer's line printer See printer.	8e2

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format conventions: See format,	8e3
publish subsystem: See publish (PROGRAMS).	8e4
format subsystem: See format (PROGRAMS),	8e5
Hardware:	8 f
IMP: acronym for Interface Message Processor See IMP.	8£1
Multiline Controller: See Multiline,	8f2
TIP: Terminal IMP See TIP.	8f3
Hardware: machinery, That which transmits or stores information as opposed to software which is the information transmitted or stored, See also: software, terminals,	8 g
Computers: See site,	8g1
Network: See hardware,	8g2
head: The first statement at the same level as the statement you specify. In the illustration, statement 1 is the head of statements 1, 2, and 3; 1a is the head of 1b and 1a. The origin statement is its own head. The "head" is the first statement in a plex. Compare: tail. See also: source, illustration, origin.	8h
header: The text that is automatically created at the beginning of each recorded item sent via Sendmail. This header contains the SENDLIST, the AccessList (if any), and many output processor directives followed by the origin Statement of the source if the item was an entire file. See also: List, statement.	81
header: See header (SENDMAIL).	8 j
Getting Help: 1) Strike ? at any point in an NLS command for a list of alternatives currently available to you. 2) Hold down the <ctrl> button and hit q, at any point, for an explanation of your current alternatives. Note: Method 2 puts you into the Help command repeat mode until you hit CD (Command Delete <ctrl=x>). See also: help.</ctrl=x></ctrl>	8k
Help TYPEIN/OK: The command "Help" provides the most complete information about all aspects of NLS. After you type in (TYPEIN)	

information about all aspects of NLS. After you type in (TYPEIN) any term and hit the Command Accept (CA) key (<CTRL=D>), you will see the description and the Help command will be ready for another TYPEIN. TYPEIN any term you wish or the number of a "menu" followed by CA. Any time after the first description prints, you can type __ followed by y (for yes) to see the previous view indicated or n (for no) to choose a view before that. Hit the Command Delete (CD) key <CTRL=X> to end the Help command.

H

- menu: A numbered list of related subjects that may follow an explanation in the Help command. This list is called a menu. Typing a number followed by <CA> will show the explanation named.
- commands: how to see command descriptions: After a command verb type <CTRL=S> for a short description or <CTRL=Q> for a longer description.
- In the Help command, to get the description for any Base command, type the verb. For example, type: Set <CA> for a description of the command Set.
- To see the description of any command not in the BASE subsystem, precede the commandword(s) with the name of the SUBSYSTEM. For example, in the Help command, type: Sendmail Interrogate <CA> for a description of the command Interrogate in the Sendmail subsystem.
- To see all of the commands in any subsystem, type the SUBSYSTEM name followed by the word "commands", For example, type: Base commands.
- Capitalization does not matter when using words in the Help command.



getting help in NLS: See NLS.

How to use NLS: See NLS.

(Help) _/T: T: "

TNLS example: BASE C: Help OK/T: BASE subsystem: The BASE subsystem is the major subsystem of NLS. It has commands that allow you to name, read, and write information online and output it to hardcopy. When you enter NLS, you begin in the BASE subsystem. 1. How to use the BASE subsystem 2. commands in the BASE subsystem:



NLS: Online System NLS is a system for using computers to help in knowledge work based on textual information. With NLS you may read, write, publish, mail, collaborate, calculate, and program, among other things, in an integrated way augmented by the computer. The command language allows moving around in and modifying the information hierarchy. NLS groups commands into subsystems for

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related tasks. To find out how to do a task in NLS, see: HOW (Help) _/T:

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TNLS peculiarities: Typing <CTRL=0> will stop the current process. This will have bad side=effects especially the first time using the Help command until this bug is fixed. To skip the introductory message each time and go directly to the subject you are looking for, type the word in the Help command the first time before hitting CA. After you start to type something in the Help command, the prompt T/[A]: will appear. Please ignore it. See also: <CTRL=0>, prompt.

emergencies: In the case of system error messages type <CTRL=C>
(hold down the CTRL key and hit c). When you see the at-sign 0
type "NLS" and a carriage return. This should totally clean
everything out and start over in NLS. See also: BAD, <CTRL=O>,
<CTRL=X>, <CTRL=C>.

heralds: The identifying character(s) each SUBSYSTEM prints at the left margin for each command when you use NLS through teletype-like terminals. The herald is usually the first few letters of the subsystem's name. You may adjust the length of these heralds, or have only a star * print at the margin for every subsystem, in the Useroptions subsystem.

Herald [affects TNLS only]: HERALDSPECS OK: The Useroptions subsystem command "Herald" allows you to specify the number of characters of each subsystem name that will print as a TNLS herald, or to choose to have a star * print as the herald for every subsystem. See also: heralds, subsystem.

HERALDSPECS: Terse, Verbose, Length: for HERALDSPECS, you may choose terse which makes the herald for every subsystem a star *. Verbose (the default) which makes the herald the first few characters of the current subsystem name. If Length is left to default, four letters (such as BASE when in USEROPTIONS) will print. For Length, you may specify the number of letters of the name to be printed when Verbose is the chosen HERALDSPECS.

See also these related commands: Useroptions Reset Herald, Useroptions Show Herald,

Useroptions Herald command: see herald (USEROPTIONS).

exception for TENEX as a subsystem of NLS: TENEX's herald is always atsign @

heralds in DNLS: in DNLS, the herald or the name of your current subsystem shows in the upper left corner of the display.

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8 m.

8m1a

8m1b

8m2

8m3

8m4

H

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	and and
hierarchy: See file,	8n
Host Site: See server,	80
How to use NLS: you use NLS by typing in commands, Commands begin with verbs such as "Insert" or "Substitute", or "Delete", Commands tell the computer what you want to do. With commands, you can locate, transform, or disseminate text from the computer. To use NLS, you must understand commanding. See also: NLS.	8p
Systems: entering and leaving See Systems.	8p1
Getting Help: See Getting,	8p2
Commanding: See command,	8p3
Pointing to information: addressing and bugging See Pointing.	8p4
Reading and viewing information: See Reading,	8p5
Writing, creating and modifying information: See Writing,	8p6
Hardcopy printing and formatting: See Hardcopy,	8p7
Profile defining: the useroptions subsystem: See useroptions.	898
Programming for users: See programs,	8p9



i Viewspec: analyze the content of statements: "Show only those statements that satisfy the content-analyzer." If you have specified a content-analyzer and have viewspec i on, every statement is checked for the pattern; if it passes you will be able to view or edit it. Viewspec j turns the content-analyzer off. If there is no content-analyzer written, compiled, loaded, and instituted, viewpec i has no effect. Viewpecs i, j, and k are mutually exclusive. You can turn on viewspec i using the BASE subsystem command "Set Content (pattern) On",

I Viewspec: show SIDs, not statement numbers: "Use SIDs for statement identification," If viewspec m is on, turning I on will show each statement's SID. Viewspec J shows statement numbers instead. The viewspecs G (right margin) and H (left of statement) determine where the statement numbers will appear. Example: the string mIG will make SIDs appear at the right margin after each statement. See also: Statementnumber, SID, m, Capital=J, Capital=H, Capital=G.

id: See ident.

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IDENT: a string of 2=5 characters that identifies you to NLS and is recorded with your address in a master file. It is often your initials and can be the same as your TENEX password, but they are keys to different systems. IDENTS designate Journal authorship and distribution. Whenever an IDENT is expected in a command, and you don't know the IDENT, you can use one of the following. See also: initial.

last=name search: ,lastname, ,last See last=name,	9d1
content search: "TYPEIN": See content.	9d2
GROUP=IDENT: See GROUP=IDENT,	9d3
IDENTLIST: See IDENTLIST,	9d4
If you have no ident or if your ident information needs updating,	

FEEDBACK (at office=1), See also: show record (SENDMAIL),

Identification subsystem: This is a protected subsystem for which there is no Help description. To enter or modify any IDENT information, sndmsg or sendmail to FEEDBACK describing your modification. Use the Sendmail subsystem's Show Record (for ident) command to see address, phone, etc., 0

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NLS=8

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9h1

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Sendmail's show record command: See show record (SENDMAIL), 9e1

IDENTLIST: a list of IDENTS separated by commas. In Sendmail distributions, an IDENT may be immediately followed (no spaces) by a parenthetical comment which will only go to that IDENT, i.e., IDENT(comment). The parenthetical comment may not include a period. 9f

The distribute command: See distribute (SENDMAIL).

IDENTS: See identlist.

illustration of file structure: 0 ... 1 ... 1a ... 1b ... 1b1 ... 1b2 ... 1b3 ... 2 ...

3 ... 3a ... 3b ... 3c ...

301 ... 3c1a ...

NOTE: Each group of 3 dots above represents a statement in the structure of the file. The statement numbers (e.g., "1b1" and its following space) are not part of the statement; they serve only to identify the location of the statement.

File: See file.

IMLAC: The manufacturer of a display console used experimentally with NLS.

IMP: acronym for Interface Message Processor - A specially modified Honeywell 316 or 516 processor which serves as the communications computer in the ARPANET. See BBN (for documentation).

Include Subsystem/Program ...: The Useroptions subsystem command "Include" allows you to choose what subsystems or programs are automatically available to you when you enter NLS. The programs directory contains standard NLS user programs. It does not take effect until you re=enter NLS anew. Use the useroptions' "Exclude" command to delete subsystems and programs from your list of inclusions. Use the useroptions' Show Default command to see your current default subsystem and program status. See also: Entry (USEROPTIONS).



syntax==

9k



	Include Subsystem SUBSYSTEM OK: Include Program CONTENT OK:	9k1
	The USEROPTIONS Exclude Subsystem/Program command: See exclude (USEROPTIONS).	9K2
	The USEROPTIONS Show Default (subsystems and programs) command: See show default (USEROPTIONS),	9K3
	The USEROPTIONS Entry Subsystem/Program command: see entry (USEROPTIONS),	9ĸ4
	includable subsystems: See attachable,	9k5
	programs library: see library (PROGRAMS),	9k6
ind	lenting:	91
	For level-indenting: See level,	911
	To control indenting of levels of NLS hierarchical structure: See printoptions indenting (USEROPTIONS),	912
	To control indenting of commands from left margin of TNLS printout, use the Useroptions Feedback Indenting Command: See feedback indenting (USEROPTIONS).	913
	To set tabstops: See tab (USEROPTIONS).	914
ind	lex: See publish (PROGRAMS).	9 m
ind	iexes: See catalogs,	9n
Inf co id By ca yo wh ma ex in "R	erior Exec: [TENEX as a subsystem of NLS]: NLS's Goto TENEX mmand gives you a second copy of TENEX (called "inferior exec") entical in most respects to the copy you got when you logged in, using the Goto TENEX command, you preserve your copy of NLS and in return to it if you wish by using the Exec's "Quit" command. If you guit to TENEX, you risk the chance of losing your copy of NLS en you call another subsystem in TENEX. From inferior exec you you call another subsystem in TENEX, From inferior exec you you to log out; from superior exec you may not Quit. (From inferior ec you may call a second copy of NLS, and from it a second ferior exec, and so on if you care to.) The programs command you" allows you to use a TENEX subsystem interactively from NLS.	
De	e also; Programs, Run,	90
inf	lle=return: See return,	9p
INF	ILEADDRESS:	99
	POSITION: See POSITION.	991
	STRINGPOSITION: See STRINGPOSITION.	992

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SID: Statement IDentifier: See SID,	9q3
STATEMENTNUMBER: See STATEMENTNUMBER,	9q4
STATEMENTNAME: See STATEMENTNAME.	9q5
NEXTNAME: See NEXTNAME,	9q6
BRANCHNAME: See BRANCHNAME.	9g7
EXTERNALNAME: See EXTERNALNAME,	998
CHARACTERADDRESS: "CHARACTER See CHARACTERADDRESS.	9q9
CONTENTADDRESS: See CONTENTADDRESS,	9910
MARKER: See MARKER,	9911
<pre>slash / : See Slant=Off\$slash,</pre>	9g12
backslash \ : prints the statement you are on See backslash.	9913
Information hierarchy: Computers store information on tape, and on random access devices called disks. Computers may also be connected together in networks. A Network TENEX site's computer (disk) storage is divided into directories, one for each "user". Each directory may hold a number of files. NLS files can be arranged in a hierarchical STRUCTURE of titles and paragraphs called Statements which are made up of character STRINGS. Your location in NLS information hierarchy refers to the character at which you are presently located.	9r
Character: See character,	9r1
Statement STRING: See Statement.	912
File STRUCTURE: See File,	9r3
Directory: See Directory,	9r4
Site, Computer: See Site,	9r5
Network: See Network.	916

initial (IDENT) file: The file that is automatically loaded for you when you enter NLS. If you have no initial file, NLS creates one. Its name is your ident. It contains a branch named "journal" where sendmail citations are delivered to you automatically, and a similar branch "author" where items you send are recorded. You may add anything else to your initial file (See also: writing), When you first enter NLS you are in the BASE subsystem, and you are at the first character of the origin statement in your initial file. See: citation.

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Initialize (specifications) OK: The Sendmail subsystem command "Initialize Item" resets all of the Sendmail commands. It places your IDENT as author and deletes everything from the other commands. Use this command if you receive error messages while using Sendmail, This is done automatically every time you enter the Sendmail Subsystem.

Author: The Author of a document or message distributed via the sendmail subsystem is usually specified by the IDENT of the person logged in to distribute the mail. If you use "Interrogate," the author will be you unless you specify otherwise, Other IDENTS can be substituted or added with Sendmail's Authors command, After you have mailed an item that you authored, a citation to it will appear in your INITIAL file under a branch with the STATEMENTNAME author. This is your automatic bibliography of all the items you "published" in the Journal via the Sendmail subsystem.

Sendmail's authors command: See authors (SENDMAIL).

IDENT: See ident.

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Sendmail commands: See sendmail.

input is handled as follows: The number is reformatted according to the current format specifications, See also: format, The number and its operator (if any) is entered into the Calculator file. The designated arithmetic operation is performed on the value stored in the accumulator. The resulting calculation replaces the old accumulator value. The reformatted number, the operator, and the new accumulator value are printed at the terminal.

Input: use the insert command. See insert.

Insert: add, duplicate, create information: The command "Insert" allows you to add, duplicate or create information in a file.

Character: Insert Character (to follow) DESTINATION CONTENT OK: The command "Insert Character" adds the character(s) you specify for CONTENT after the character in an existing statement that you point to for the DESTINATION. Afterwards, you are located at the last character you inserted. See also: CONTENT, DESTINATION, character, Insert.

Date: Insert Date (to follow) DESTINATION OK: The command "Insert Date" adds the current date into your file after the visible you point to for the DESTINATION, Type <CTRL=T> to see the current date and time.

Edge: [DNLS only] Insert Edge (perpendicular to) DIRECTION OK: The command "Insert Edge" divides your display window, You may Bug the margin where you want the edge to be or specify the commandword "Center (of) BUG" for DIRECTION. The location of 0.0

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9t1a

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your cursor when you type OK determines which side of the edge will contain the information in your old window. All of your file and statement return memories are located in your old window. New windows start over. The new window will say "Empty". The Jump command puts things in the window containing the cursor. Use the Delete Edge command to get rid of windows. Once an edge has been deleted, it cannot be retrieved. See also: Edges, Window, cursor, Move Edge, Delete Edge.

Invisible: Insert Invisible (to follow) DESTINATION CONTENT OK: The command "Insert Invisible" adds the character(s) you specify for CONTENT after the character in an existing statement that you point to for the DESTINATION. Afterwards, you are located at the last character you inserted. See also: Invisible, CONTENT, DESTINATION, Character, Insert,

- Link: Insert Link (to follow) DESTINATION CONTENT OK: The command "Insert Link" adds the character(s you specify for CONTENT after the visible in an existing statement that you point to for the DESTINATION. Necessary spaces and link delimiters (angle=brackets) are added automatically. Afterwards, you are located at the last character you inserted.
- Number: Insert Number (to follow) DESTINATION CONTENT OK: The command "Insert Number" adds the character(s) you specify for CONTENT after the visible in an existing statement that you point to for the DESTINATION. Necessary spaces are added automatically. Afterwards, you are located at the last character you inserted. See also: Visible, CONTENT, DESTINATION, Character, Insert.
- Sendmailform: Insert Sendmail (form to follow) DESTINATION LEVEL=ADJUST OK: The command "Insert Sendmailform" inserts a form listing Sendmail commands into a file as a statement. Use NLS text=editing commands to fill out this form. The system fills in the IDENT of the logged=in user for the Author, but you may change it. Commands you leave blank will be ignored. Use the Process (command form) command in the Sendmail SUBSYSTEM to automatically execute the commands in the form. After insertion you are at the first character of the list of commands.
 - sendmailforms for all commands: a single STATEMENT with a list of sendmail commands. Each command ends with a carriage return in the form statement except the SEND command which must appear at the end and be terminated by a period. Do not use a carriage return in the text of a MESSAGE in the sendmail form as any carriage return means "end of the message". This means you may not use <CTRL=V>CR either. Any of the following commands can be in a sendmail form. Any commands misspelled, containing lower case letters, or not listed below will be ignored. Many prudent users delete "SEND" (but not the preceeding carriage return), and send the item manually after viewing it by using the Show Status command to check their input. See also: process.

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9w7a

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TITLE: TYPEIN a title: See title. 9w7a1 COMMENT: See comment (SENDMAIL). 9w7a2 AUTHOR(S): IDENTLIST: See authors (SENDMAIL). 9w7a3 9w7a4 NUMBER: See number (SENDMAIL). DISTRIBUTE FOR ACTION TO: IDENTLIST: See distribute (SENDMAIL). 9w7a5 DISTRIBUTE FOR INFO-ONLY TO: IDENTLIST: See distribute (SENDMAIL). 9w7a6 SUBCOLLECTION(S): IDENTLIST: See subcollections 9w7a7 (SENDMAIL). KEYWORD(S): TYPEIN: See Keywords (SENDMAIL). 9w7a8 HANDLING INSTRUCTION: See expedite (SENDMAIL). 9w7a9 RECORDING INSTRUCTION: See unrecorded (SENDMAIL). 9w7a10 OFFLINE ITEM -- LOCATED AT: TYPEIN: See offline (SENDMAIL). 9w7a11 RFC NUMBER: See RFC (SENDMAIL). 9w7a12 OBSOLETES ITEM NUMBER(S): See obsoletes (SENDMAIL). 9w7a13 ACCESS STATUS: See private (SENDMAIL). 9w7a14 UPDATE TO ITEM NUMBER(S): See update (SENDMAIL). 9w7a15 INSERT LINK TO FOLLOW: see insert link (SENDMAIL). 9w7a16 FORWARD ITEM NUMBER: See forward (SENDMAIL). 9w7a17 MESSAGE: TYPEIN: see message (SENDMAIL). 9w7a18 STATEMENT AT: <LINK>: See statement (SENDMAIL). 9w7a19 BRANCH AT: <LINK>: See branch (SENDMAIL). 9w7a20 PLEX AT: <LINK>: See plex (SENDMAIL). 9w7a21 GROUP AT: <LINK>: See group (SENDMAIL). 9w7a22 FILE: <LINK> 9w7a23 SEND THE MAIL: See SEND. 9w7a24

Sendmail's Process (command form) command: See process (SENDMAIL),

9w7b

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Sendmail: See sendmail. 9W7C DESTINATION: See destination. 9w7d LEVEL=ADJUST: See level=adjust. 9w7e 9w7f OK: See OK. 9w7a NLS text=editing commands: See modifying=commands. IDENT: See ident. 9w7h Statement: See Statement. 9w71 Statement: Insert Statement (to follow) DESTINATION LEVEL-ADJUST CONTENT OK: The command "Insert Statement" allows you to create new statements in your file. To TYPEIN many statements in a row, use OKINSERT <CTRL=E>. CONTENT allows the specification of a DESTINATION, i.e. you can "copy" an existing Statement, instead of "inserting" a new one, with this command. After execution, you are at first character of the newly inserted 9w8 Statement. OKINSERT: See OKINSERT. 9w8a Text: Insert Text (to follow) DESTINATION CONTENT OK: adds the character(s) you specify for CONTENT after the character in an existing statement that you point to for the DESTINATION. Afterwards, you are located at the last character you inserted. See also: Invisible, Insert Character. 9w9 Time: Insert Time (and Date to follow) DESTINATION OK: Inserts the current time and date after the character in an existing statement that you point to for DESTINATION. To see the current time, type control=t <CTRL=T>. 9w10 Visible: Insert Visible (to follow) DESTINATION CONTENT OK: adds the character(s) you specify for CONTENT after the visible in an existing statement that you point to for the DESTINATION. Necessary spaces are added automatically. Afterwards, you are located at the last character you inserted. See also: Visible, CONTENT, DESTINATION, Character, Insert. 9w11 TNLS example: BASE C: Insert C: Visible (to follow) A: 03 "9:30" T: p.m. BASE C: 9w11a Word: Insert Word (to follow) DESTINATION CONTENT OK: adds the character(s) you specify for CONTENT after the word in an existing statement that you point to for the DESTINATION.

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Necessary spaces are added automatically. Afterwards, you are located at the last character you inserted. 9w12

STRING: Insert STRING (to follow) DESTINATION CONTENT OK: This group of commands allows a new STRING to be entered in an existing statement, See also: Substitute.

Effects: CONTENT provides you the choice of DESTINATION, that is, you can "copy" an existing STRING, instead of "inserting" a new one, with this command. After execution, you are at the last character of the inserted text. If you insert a link, NLS will automatically supply angle=bracket delimiters if you do not supply the delimiters. See also: link. 9w13a

STRING = Character, Text, Word, Visible, Invisible, Number, Link: See string.

STRUCTURE: Insert STRUCTURE (to follow) DESTINATION LEVEL=ADJUST CONTENT OK:

This group of "Insert" commands allows you to create new statements in your file, To TYPEIN many statements in a row, use OKINSERT <CTRL=E>. CONTENT allows the specification of a DESTINATION, i.e., you can "copy" an existing Statement or Branch or Plex or Group, instead of "inserting" a new one, with this command, If you choose TYPEIN with Branch or Plex or Group, it acts as Insert Statement. After execution, you are at the first character of the newly inserted STRUCTURE.

STRUCTURE = Statement, Branch, Plex, or Group: See structure. 9w14a

TNLS example: BASE C: Insert C: Statement (to follow) A: 2b3 L: d T: I love you, BASE C:

OKINSERT: See OKINSERT.

Insert:

Status: Insert Status (form to follow) DESTINATION LEVEL=ADJUST OK: The Sendmail subsystem command "Insert Status" will insert a statement containing the current status of your Sendmail item at the DESTINATION you specify. You can modify this statement to contain the Sendmail commands appropriate for your Sendmail item, When this form is edited to your satisfaction, use the Process (command form) command in the SENDMAIL subsystem to automatically execute every command in the form. To insert a complete empty command form, use the BASE subsystem's Insert Sendmail (form) command.

Effects: If you Guit out of the Sendmail Subsystem sometime

9w14b

9w14

9w13

9w13b

9w14c

9 X

before you go to Sendmail and Process your status form, you must re-specify the source of your item.	9x1a
Sendmail item: See item (SENDMAIL),	9x1b
editing: See writing.	9x1c
the form for each command: See sendmailforms,	9x1d
The SENDMAIL Process (sendmail form) command: See process (SENDMAIL).	9x1e
The BASE Insert Sendmail (form) command: See insert sendmailform.	9x1f
Link: Insert Link (to follow) DESTINATION OK: The Sendmail subsystem command "Insert Link" causes the system to create and place a link to the Sendmail item at the DESTINATION you specify if you have the right to write on the file. Since Journal files cannot be altered, this command will not place a link in a Journal file. Also, no link will be placed if the Number command has not been used to assign a number.	9x2
Journal file: See journal file (SENDMAIL).	9x2a
The Number command: See number (SENDMAIL),	9x2b
nsert (accum following) STRING/STRUCTURE: The Calculator subsystem command "Insert" inserts the value of the accumulator into an NLS file, See also: accumulator,	9¥
STRING: Insert (accum following) STRING DESTINATION OK: Use this command to insert the value of the accumulator following the type of STRING at the DESTINATION you specify, See also: STRING, DESTINATION, accumulator,	9y1
STRUCTURE: Insert (accum following) STRUCTURE DESTINATION LEVEL-ADJUST OK: Use this command to insert the value of the accumulator following the type of STRUCTURE at the DESTINATION you specify. See also: STRUCTURE, DESTINATION, LEVEL=ADJUST, accumulator.	9y2
nsert Format (at) DESTINATION (Using Format #) CONTENT: (Title:)	

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Inser CONTENT (Author Ident(s):) CONTENT (Journal Number:) CONTENT (Formatting File) The Format user=subsystem command "Insert" adds directives and any necessary special characters to a file according to a given predesigned format. You must first point to the file. It then

lists your choice of formats. Printed Samples of all the formats are available through FEEDBACK. You type the number of the desired format.

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Effects: Unless the file to be formatted is a Journal file, it asks you to type the title of the document, a list of author idents (which may include organization and group idents), and finally the Journal number (in case you have a preassigned number that you wish put on the file). To skip any of these fields in TNLS type CA, in DNLS type <CTRL=N>. The command will insert the directives necessary to produce the format you chose. It may insert directives in the origin statement, in every level one statement, and in some cases in the statement back from every level one statement. It also creates a title page as the last level-one branch in the file. The title, authors, and Journal number appear in the title page and in some cases in header or footer directives in the origin statement.

modifying the formatted file: The program only inserts text in the file. You may edit any of it as you see fit. For example, if one of the authors does not have an ident, you may add his/her name to the title page afterwards. Or you may edit the directives to modify the format. (You should feel fairly confident of your understanding of the Output Processor before you attempt to edit the more complex of these formats!) See directives.

Formats designed for COM: Most of the formats were designed for Computer Output to Microfilm (COM). The intent is to make it very easy for users less experienced with the Output Processor to take advantage of COM's capabilities.

How to have your format and read it too!: To be safe you should use the "Format" command on files which previously have no directives in them, Since directives can get in the way of online reading, you may want to:

=Update File =Execute (command in) Format Insert Format =Output COM or Output Printer =Delete Modifications

This last command undoes what the Insert Format command did. You are then left with a clean file. You must repeat the "Insert Format" command to prepare it for "Output" a second time. See output printer file.

inserting: See writing.

Institute PROGTYPE (program) CONTENT OK: The Programs' subsystem command "Institute" activates a program that has already been loaded or compiled into your buffer. For CONTENT, you may use the name of the program or its number in your Buffer. Specify the purpose of the program for PROGTYPE with one of the commandwords listed below, Loading programs automatically institutes them. See also: instituting, loading, compiling, show (PROGRAMS), commandwords: 9z1

9z1a

9z2

9z3

9a@

9aa

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Content (analyzer): See content-analyzer,	9aa1
Sequence (generator): See sequence,	9aa2
Sort (key extractor): See sort (PROGRAMS),	9aa3
deinstitute: See deinstitute (PROGRAMS).	9aa4
instituting loaded programs: Once a program has been loaded into the programs buffer, if it is a Content Analyzer filter, a Sort key algorithm, or a Sequence generator program, it is instituted automatically for you. Many programs may be loaded into the buffer at any time, but only one may be instituted for each function. Controlling viewspecs pass control to the instituted program only. See also: Loading, Institute.	9ab
interpreter: CML interpreter: a program that interprets grammars produced by the CML compiler. However, it could just as easily be a machine whose instruction set corresponds to the grammars produced by the CML compiler.	9ac
Interrogate OK: The Sendmail subsystem command "Interrogate" asks you five questions important for sending a simple piece of mail.	9ad
(distribute action to) CONTENT: See distribute (SENDMAIL),	9ad1
(distribute information=only to) CONTENT: See distribute (SENDMAIL).	9ad2
(title) CONTENT: See title (SENDMAIL),	9ad3
(type of source) ITEM: See item (SENDMAIL).	9ad4
(show status) ANSWER: See show (SENDMAIL),	9ad5
(send the mail ?) ANSWER: See send (SENDMAIL).	9ad6
How to skip questions: To skip one of the first three questions and go on to the next, type an OK (in DNLS a NULL character <ctrl= n=""> must precede the OK:).</ctrl=>	9ad7
DNLS: See DNLS.	9ad7a
OK: See OK,	9ad7b
Interrogate: for retrieving Archived Files, use the TENEX interrogate command, See also: TENEX,	9ae
Invisible: a continuous STRING of one of the following generally non=printing characters. Pointing to any character position within the invisible will serve to point to the entire invisible. See	Qaf
MENNE HARMEDANE	SGT

GLOSSARY

also: notation,

SRI=ARC 21=NUV=75 19:38	22132
<alt> Altmode or Escape key: See alt,</alt>	9af1
<cr>: the typewriter key that is used for a carriage return. See CR.</cr>	9af2
<pre><ctrl=*> control character where * = any character: represented as <ctrl=*> See CTRL=character,</ctrl=*></ctrl=*></pre>	9af3
<eol>: end of line see EOL.</eol>	9af4
<lf>: linefeed <cirl=j>, See LF,</cirl=j></lf>	9af5
<null> nothing <ctrl=n>: See NULL.</ctrl=n></null>	9af6
<sp>: space key also represented as <> See SP.</sp>	9af7
<tab>: See TAB,</tab>	9af8
Item: one of the following,	9ag
Message: See message (SENDMAIL),	9ag1
STRUCTURE: See structure.	9ag2
Document: see Document,	9ag3
file: See file (SENDMAIL),	9ag4
offline: See offline (SENDMAIL),	9ag5
The Jump to item command: See jump item,	9ag6
iteration: if you don't understand this, read it again.	9ah

· T

J 10 j Viewspec: don't filter statements: "Ignore any content-analyzer," Viewspec j turns off vewspecs i and/or k. Viewspecs i, j, and k are mutually exclusive. You can also turn on viewspec j and turn off viewspec i or k using the BASE subsystem command "Set Content 10a (pattern) Off". This is a default viewspec. J Viewspec: show statement numbers, not SIDs: "Use statement numbers for statement identification." This viewspec takes effect when viewspec m is on. It is also used to change I (show SIDs). The viewspecs G (right margin) and H (left of statement) determine where the statement numbers will appear. Example: if you have SIDs on at the right and want to change to statement numbers at the left, use the string HJ. This is a default viewspec. See also: 10b Statementnumber, SID, m, Capital=I, Capital=H, Capital=G. 10c Jnumber: See xdoc. Journal: stored items: The database of recorded items sent in the Sendmail subsystem. This was also a subcommand mode in old NLS=7 but has been replaced by the Sendmail Subsystem. See also: output journal, sendmail, distribution, ITEM, subcollections, header. 10d 10d1 catalogs and indexes: See catalogs, 10d2 SENDMAIL file: See file (SENDMAIL). 10e journal-number: See numbering (SENDMAIL). JSYS: lit.: "jump to system" The machine instruction used in TENEX to invoke a monitor supplied service; i.e. a jump to a subroutine. 10f Jump: The command "Jump" moves you from one file to another or from one place in a file to another. In TNLS you move to a character within a statement, and in DNLS, you move to the first character of the statement you point to. In DNLS, jump changes your view. For viewing in TNLS, use the Print command. The ofers you a chance to change of Jump commands is available in all subsystems. See also: 10g moving, jumping, subsystem, viewing. 10g1 Address: DNLS: Jump (to) Address (relative to) DESTINATION ADDRESS VIEWSPECS OK: The command "Jump (to) Address" moves you to a specific statement. To use a address in NLS, the system must know where you start from. For example, if you give .n for

next, it must know the statement where you are (to go to the

10g1a

10g1b

10g1b1

10g2

10g3

10g3a

10q4

next.) In this command, you establish where you are by entering something at the DESTINATION step. Then you can enter the address you want to go to from there. Use the Jump to Link command to jump directly to a statement not in your window. See also: ADDRESS, Jump Link.

TNLS: Jump (to) Address DESTINATION OK: The command "Jump (to) Address" moves you to the location you specify. To use a address in NLS, the system must know where you start from. For example, if you give in for next, it must know the statement where you are (to go to the next.) In this command, you establish where you are by entering something at the DESTINATION step. Then you can enter the address you want to go to from there. You can move to another file and/or move within the file you have loaded. If you change files, the system will print out the new file's name. You can set up viewspecs for later reading, as with the Print commands. See also: DESTINATION, ADDRESS, VIEWSPECS, reading, moving, filename.

TNLS example: BASE C: Jump (to) C: Address A: onetest, alice .e BASE C:

BUG: [DNLS only] Jump (to) BUG VIEWSPECS OK: The "Jump (to) BUG" command moves you to the first character of the statement you Bug. You are positioned at the statement at the top of the screen after re=creation. See also: jumping, DNLS, VIEWSPECS, re=creating, bug.

Back: Jump (to) Back DESTINATION VIEWSPECS OK: The command "Jump (to) Back" moves you to the statement that is back of the one you specify for DESTINATION. See back.

TNLS example: BASE C: Jump (to) C: Back A: alice V: BASE C:

Content: Jump (to) Content First/Next.

First: Jump (to) Content First SEARCH VIEWSPECS OK: SEARCH = CONTENT or OKREPEAT

The command "Jump (to) Content First" will take you to the first time the characters you put in SEARCH appear in your file, You can TYPEIN or point to whatever characters you want, or hit the OKREPEAT character <CTRL=B> to search for characters you have already chosen. To repeat character search, use the TAB command, <CTRL=I>, You cannot search for something that is in quotes. See: TAB, content.

TNLS example: BASE C: Jump (to) C: Content C: First RPT/T: T: soups 10g4a

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J

V: mw "soups"=C ?? BASE C: Jump (to) C: Content C: First "soups" RPT/T: T: Soups V: mw 10g4a1 BASE C: Next: Jump (to) Content Next SEARCH VIEWSPECS DK: SEARCH = CONTENT OF OKREPEAT The command "Jump (to) Content Next" will find the next time the characters you put in for SEARCH appear in your file. You can TYPEIN what ever content you want, or hit the OKREPEAT character <CTRL=B> to search for a CONTENT you have already specified. To repeat a content search, use the TAB command. See: TAB. 10g4b TNLS example: BASE C: Jump (to) C: Content C: Next "Soups" RPT/T: T: Desserts V: BASE C: 10g4b1 Down: Jump (to) Down DESTINATION VIEWSPECS OK: The command "Jump (to) Down" moves you to the statement that is down from the one you specify for DESTINATION. See down. 1005 TNLS example: BASE C: Jump (to) C: Down A: 1c V: BASE C: 1095a End: Jump (to) End (of branch) DESTINATION VIEWSPECS OK: The command "Jump (to) End " moves you to the end statement of the branch that is defined by what you specify for DESTINATION. See 1006 end. TNLS example: BASE C: Jump (to) C: End (of Branch) A: 1 V: BASE C: 10g6a File: Jump (to) File Named/Return. 1007 Named: Jump (to) File Named CONTENT VIEWSPECS OK: The command "Jump (to) File Named" allows you to go to the origin statement of a file. Typein the FILEADDRESS of the file for CONTENT. You need not include the final comma. If the file

is in your connected directory, you may "point" to its name instead of typing the FILEADDRESS. The filename need not be a

part of a link, See also: FILEADDRESS, pointing, link,



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10g7a

10g7a2

1097b

10g7b1

10g8a

1009

1099a

1099b

In DNLS, if the file is in another directory, and the filelink is in your window, use the Jump (to) File BUG command instead. Note: Jump (to) File Named does not follow the default directory for links when pointing to the FILEADDRESS. 10g7a1

TNLS example: BASE C: Jump (to) C: File C: Named T: jmb V: eb < BECK, JMB.NLS;2, > BASE C:

Return: Jump (to) File Return OK ("<PAST FILEADDRESS>") ANSWER: The "Jump (to) File Return" command moves you to a file where you were before, ("<PAST FILEADDRESS>") is the name of the file you will go to if you answer Yes or hit CA, If you answer No, the FILEADDRESS before that will appear, See also: return,

TNLS example: BASE C: Jump (to) C: File C: Return OK: "< BECK, TALK.NLS;1, >"Y/N: OK: < BECK, TALK.NLS;1, > BASE C:

Head: Jump (to) Head DESTINATION VIEWSPECS OK: The command "Jump (to) Head" moves you to the statement that is at the head of the statement you specify for DESTINATION. See head. 10g8

TNLS example: BASE C: Jump (to) C: Head A: 1c V: etb BASE C:

Jump (to) Return OK ("FLASHBACK") ANSWER: The command "Jump (to) Return" will take you back to a previous statement, ("FLASHBACK") represents the first few characters of the statement you will go to if you answer Yes or hit CA. If you answer No, the beginning of the previous position before that will appear as ("FLASHBACK"), See also: return.

TNLS example: BASE C: Jump (to) C: Return OK: " WITH SOUR CREAM" Y/N: OK: BASE C:

ANSWER: See answer.

Item: Jump (to) Item DESTINATION VIEWSPECS OK: The command "Jump (to) Item" moves you to the statement you specify for DESTINATION. 10g10

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TNLS example: BASE C: Jump (to) C: Item A: 012 V: etb BASE C:

10g10a

Link: Jump (to) Link CONTENT OK: The command "Jump (to) Link" moves you to the ADDRESS and/or VIEWSPECS you point to or TYPEIN for CONTENT, 10g11

TNLS example: BASE C: Jump (to) C: Link T: talk,

< BECK, TALK.NLS;1, > BASE C:

10g11a

Name: The command "Jump (to) Name" finds the statement labeled by a name according to the following search=types and moves you to the first character of that statement, See also: STATEMENTNAME, 10g12

Any: Jump (to) Name Any CONTENT VIEWSPECS OK: The command "Jump (to) Name Any" finds a statement with the same name as the word (include dashes =, atsigns @, and apostrophes ') you specify for CONTENT in the fastest way possible regardless of its position in the file. You move to the first character of that statement, see also: STATEMENTNAME, CONTENT, VIEWSPECS, BUG.

TNLS example: BASE C: Jump (to) C: Name C: Any T/[A]: buffalo V: w BASE C:

BUG: [DNLS only] Jump (to) Name BUG VIEWSPECS OK: The command "Jump (to) Name BUG" finds a statement with the same name as the word you bug (will include any dashes =, atsigns 0, and apostrophes ") in the fastest way possible. This is usually, but not always the first one in the file. You move to the first character of that statement. See also: jumping, DNLS, VIEWSPECS, STATEMENTNAME. 10g12b

External: Jump (to) Name External CONTENT VIEWSPECS OK: The command "Jump (to) Name External" finds the statement with the same name as the word (includes dashes =, atsigns @, and apostrophes ") as specified for CONTENT. See also: statementname, CONTENT, VIEWSPECS, OK. See externalname.

First: Jump (to) Name First CONTENT VIEWSPECS OK: The command "Jump (to) Name First" finds the first statement in the current file with the same name as the word (include dashes ", atsigns 0, and apostrophes ") you specify for CONTENT, and moves you to its first character. See also: STATEMENTNAME, CONTENT, VIEWSPECS.

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10g12d

TNLS example: BASE C: Jump (to) C: Name C: First T: with V: BASE C: 10g12d1 Next: Jump (to) Name Next CONTENT VIEWSPECS OK: The command "Jump (to) Name Next" finds the next statement following your present location that has the same name as the word (include dashes =, atsigns @, and apostrophes ") you specify for CONTENT. You move to its first character. See also: STATEMENTNAME, NEXTNAME, CONTENT, VIEWSPECS, next. 10g12e TNLS example: BASE C: Jump (to) C: Name C: Next T: with V: BASE C: 10g12e1 Next: Jump (to) Next DESTINATION VIEWSPECS OK: The command "Jump (to) Next" moves you to the statement that is next after the one you specify for DESTINATION. See next. 10013 Origin: Jump (to) Origin DESTINATION VIEWSPECS OK: The command "Jump (to) Origin" moves you to the origin statement of the file that contains the statement you specified for DESTINATION. See origin. 10914 Predecessor: Jump (to) Predecessor DESTINATION VIEWSPECS OK: The command "Jump (to) Predecessor" moves you to the statement that is the predecessor of the one you specified for DESTINATION. See predecessor. 10g15 Successor: Jump (to) Successor DESTINATION VIEWSPECS OK: The command "Jump (to) Successor" moves you to the statement that is the successor of the one you specified for DESTINATION. See successor. 10916 Tail: Jump (to) Tail DESTINATION VIEWSPECS OK: The command "Jump (to) Tail" moves you to the statement that is the tail of the statement you specify for DESTINATION. See tail. 10017 Up: Jump (to) UP DESTINATION VIEWSPECS OK: The command "Jump (to) Up" moves you to the statement that is up from the one you specify for DESTINATION, . See up. 10918 Word: 10g19 First: Jump (to) Word First SEARCH VIEWSPECS OK: SEARCH = CONTENT OF OKREPEAT The command "Jump (to) Word First" finds the first occurrence of the word you choose for SEARCH. You can TYPEIN or point to what ever CONTENT you want, or hit the OKREPEAT character <CTRL=B> to search for a CONTENT you have already



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specified. To repeat a content search, use the TAB command, See: TAB, <CTRL I>. 10g19a

TNLS example: BASE C: Jump (to) C: Word C: First RPT/T: T: soups V: m BASE C:

Next: Jump (to) word Next SEARCH VIEWSPECS OK: SEARCH = CONTENT or OKREPEAT

The command "Jump (to) Word Next" will find the next occurrence following your present location of the word you specify for SEARCH. You can TYPEIN or point to whatever word you want, or hit the OKREPEAT character <CTRL=B> to search for a word you have already specified. To repeat a word search, use the TAB command, <CTRL I>. See: TAB. 10g19b

TNLS example: BASE C: Jump (to) C: Word C: Next "SOUPS" RPT/T: V: m BASE C: ; I used OKREPEAT there.

Jumping in DNLS: The NLS feature you use for moving to a new place in a file. There is a whole family of Jump commands, available in all subsystems. Some Jump commands take you to a character within a statement; some take you to files; and some take you to statements according to their structural position. In DNLS, all of them move you to the first character of the statement or of the origin statement of the file addressed. The view you specify in a Jump command will appear in the file display window your cursor is in. When you give the final DK for the command, your screen will be re=created. See also: viewing, structural, pointing. 10h

re=creating the display: See re=creating,

Jumping in TNLS: See moving.

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10h1

10g19a1

10g19b1



K

k Viewspec: show next filtered statement: "Find the next statement that satisfies the content-analyzer, then turn the content-analyzer off." Viewspec j causes all statements to pass the filter, regardless of content. Viewspec i allows you to pass all statements containing the correct content, Viewspecs i, j, and k are mutually exclusive. Compare TAB=command.

K Viewspec: statement signatures on: "Show statement signatures after each statement." Viewspec L suppresses statement signatures; K switches them on. Statement signatures contain the ident of the person who last edited that statement and the date and time of the last edit. See also: IDENT, Capital=L.

Keyset: A device with five piano=like keys for entering characters into NLS at a display console. Each key controls a bit in 5=bit ASCII code. With your left hand on the keyset and your right hand on the mouse, you can give all input to DNLS without ever moving your right hand to the keyboard, Moving both hands to the keyboard is efficient for typing in a long series of text. Different combinations of Mouse buttons are used in conjunction with keyset combinations to make this possible. The small viewspec/Mouse and Keyset Card shows you all the possible mouse and keyset combinations. Ask your architect for this Card or address requests to the IDENT Feedback. You can also contact the Augmentation Research Center, SRI, 333 Ravenswood Avenue, Menlo park, Calif, 94025, (415)326=6200 ext,3630, or in this publication see: mouse=keyset.

Mouse=Keyset combinations: See Mouse=Keyset.

Keywords CONTENT OK: The Sendmail subsystem command "Keywords" allows you to specify which words will typify the nature of the document, CONTENT wants you to indicate the keywords, ARC does not at present produce keyword indices of journal items except on request. However, words in the title are used in the titleword index,

litle command: See title,	11d1
CONTENT: See content,	11d2
catalog: See catalog,	11d3
subcollection: See subcollection.	11d4

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11a

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11f

Kill TENEX (subsystem) OK: The Programs' subsystem command "Kill TENEX" undoes the command "Run TENEX," 11e

KW: Knowledge Workshop: See AKW.





then a last name, the Sendmail subsystem will find the IDENTS for all people with that last=name. The beginning characters of a last name preceded by a period and followed by three periods will find the IDENTS for all last=names beginning with those characters. If only one IDENT satisfies your request, you will be shown this IDENT and asked if it is the correct one. Typing a CA will put this IDENT into the command. When an IDENTLIST is called for, any last=name search must have a comma separating it from the next item in the IDENTLIST. Typing a <CTRL=0> will stop an IDENT search at any time. 12f

leaving NLS to TENEX: To return to the TENEX timesharing system from NLS use the Guit NLS command, After that, you can type "con" followed by carriage return at the TENEX herald to return to NLS. To break contact with TENEX entirely use the Logout command in TENEX or NLS. To leave NLS anytime for an excursion in TENEX, use the Goto TENEX command. This command issues to you a second copy of TENEX called "inferior exec". To return from this second copy to NLS, use the TENEX Quit command.

Inferior Exec: [TENEX as a subsystem of NLS] See Inferior, The TENEX herald is the atsign (@): A herald is the identifying 12g

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character(s) at the left margin that shows your current 12g2

1203 Goto SUBSYSTEM command: See goto. 1294 command to Guit: See guit NLS. 1295 command to logout: See logout. 1296 control=c <CTRL=C> and Continue: See <CTRL=C>.

left button down while giving a keyset code = numbers, etc. Holding down the left mouse button while giving a keyset code allows you to 12h input numerical and nonalphabetic characters. See keyset.

Left=anglebracket (<) command: Typing the left=anglebracket key (<) at the herald of a subsystem displays your subsystem stack == See stack.

less=than: See lessthan.

(sub)system.

12k lessthan symbol: < Subsystem Stack, See: stack; anglebrackets,

Letter: The user=program "Letter, rel" asks questions and formats the answers for a business letter. It is not a user-subsystems and therefore does not have the prompting, questionmark, and help features. You must already have written the body of the letter. It should be in a file by itself and you should be in that file. You should also have a pre-assigned journal number and a title ready to give as leaving them out causes the program to do bad things. See running (PROGRAMS).

level: In NLS, files are arranged in an outline form. Level refers to how far up or down a statement is in the outline. The organization of all the statements determines the STRUCTURE of a file. The level of a statement is created or modified when you use certain commands that prompt you with L:. Lower levels can be hidden by level clipping viewspecs. The normal indentation of different statements in the view of a file shows their level in the structure. If you see: illustration, you will notice that the statements at the same indentation as Statement 0 are first=level statements (e,g, 1, 2, 3, etc.); statements indented 3 spaces from first-level ones are second-level statements (e.g. 1a, 3b, etc.). Third=level statements are called "down" from second=level ones; first=level ones are called "up" from lower ones. See: STRUCTURAL, clipping.



If you don't see any level indentation: it doesn't necessarily mean that the statements aren't arranged at different levels; the indentation itself could be off; either your Useroptions Viewspecs remain set to the beginner's defaults (See also: Viewspecs (USEROPTIONS)), or you've put viewspec B on (See also: B). Statement numbers will still show levels in the file

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12m

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structure when level=indenting is off, See also: statementnumber,	1 2 m 1
LEVEL=ADJUST: See level=adjust: .	12m2
<pre>level=clipping: With reference to NLS Viewspecs, the practice of controlling how deeply into the outline structure of a file you see in any given view one level. See clipping.</pre>	12m3
illustration of file structure: See illustration,	12m4
See also: statement, statement numbers, down, up,	12m5
EVEL-ADJUST: prompted by L: asks you to specify the level you wish STATEMENTS to occupy relative to where you just pointed. If you want to change the level type a lowercase d for down or lowercase u for up. In the Insert STRUCTURE commands, these must be followed by a space or a CA before you indicate the new structure. You can type more than one u (with no spaces in between) to go up more than one level. If you don't want to change levels, just ignore the LEVEL-ADJUST field with a CA and go on. See also: PROMPTS, STRUCTURE, STATEMENT,	12n
down: See down,	12n1
up; See up.	12n2
combinations of characters, u's and d's: See combinations,	12n3
evel-clipping: With reference to NLS Viewspecs, the practice of controlling how deeply into the outline structure of a file you see in any given view, See clipping,	120
LF>: linefeed <ctrl=j>. The notation <lf> represents the linefeed key <ctrl=j>.</ctrl=j></lf></ctrl=j>	12p
the LINEFEED command: see linefeed (BASE).	1201
ibrary: See userprograms,	129
imit commandword feedback in TNLS: When you type one, two, or three letters of a command word NLS normally completes the word, You may restrict the number of letters the system will type back in TNLS with Useroptions Feedback and Reset Feedback commands which specify Length (the default Length is all characters up to 50).	12r
Useroptions feedback command: See feedback (USEROPTIONS),	12r1
Useroptions reset feedback command: See reset feedback (USEROPTIONS),	1212

L


telephone through a box called a modem with or without an acoustic coupler that cradles the receiver. 12v1 Simple Startup: See Simple. 12v2 Link: a STRING of CHARACTERS in a STATEMENT that names the address of any location in any NLS file (optionally with any view). Links are surrounded by delimiters in the order and format: <ADDRESS : VIEWSPECS>. An ADDRESS without VIEWSPECS needs no colon. If you use the VIEWSPEC field, you must have a colon preceding it. Spaces are optional. You can use parentheses "()" instead of angle=brackets "<>". Two dashes "==" also work as a left delimiter. Pointing to any character position ahead of or in a link will serve to point to the link. See also: pointing. 12w ADDRESS: See address. 12w1 VIEWSPECS: See viewspecs. 12w2 parens (): See parens. 12w3 Warning with the Replace Link command: If you attempt to replace a link with something that does not fit legal link syntax, you will get an error message, the edit will not occur, and the text you have typed to replace the link will disappear. 12w4 Linking: See connecting. 12x literal escape: <CTRL=V>: Typing the character <CTRL=V> allows you to insert a special character, as part of the text. Such special characters normally make something happen (like <cTRL=D>). For example, in TNLS, you may want to insert a carriage return in the text and carriage return, by default, also means command accept (CA). If you precede the carriage return with <CTRL=V>, it will not act as CA for that one time but rather as a literal carriage return. You can make any additional key to be your literal escape key with the Useroptions Control command. See also: control, TYPEIN, control (USEROPTIONS). 12Y Load File CONTENT OK: The command "Load File" will move you to the first character of the origin statement in the file specified by the FILEADDRESS you give for CONTENT. The file must already exist. If the file is located in another directory, be sure to specify it. 12z TNLS example: BASE C: Load C: File T: USERGUIDES, LOCATOR, BASE C: 12z1 Load Program CONTENT OK: The Programs' subsystem command "Load

Program" loads a pre-compiled program into the program buffer from

the file with the FILEADDRESS you specify for CONTENT.

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TNLS example: PROG C: Load C: Program T: format Loading User Program PROG C: Effects: See loading. loading user program files: For programs that have already been compiled into files, use the Load Program command to get the program into your buffer space and instituted. First if you do not specify

an EXTENSION, it will look in your connected directory for a file with an EXTENSION in the order listed below. If it does not find the file, it will look in the directory PROGRAMS. The Load Program command will do different things depending on the EXTENSION field of the program's FILENAME. You may use <ALT> for filename recognition. See also: Load (PROGRAMS), FILENAME, EXTENSION. 12aa .REL; RELocatable L10 program (file): See REL. 12aa1 12aa2 .CA; content=analyzer Program: See CA. 12aa3 .SK; Sort Key program: See SK. 12aa4 .SG; Sequence Generator program: See SG. .SUBSYS; An L10 program written to support a CML program: See 12aa5 SUBSYS. 12aa6 .CML; Command Meta Langauge: See CML. "PROC-REP; An L10 Procedure Replacement program: See PROC-REP. 12aa7 instituting loaded programs: See instituting. 12aa8 12aa9 buffers: See buffers. stacks: See stacks. 12aa10 12aa11 library: See userprograms.

locating your position in a file: There are several ways you can show your location without changing it. Typing a Period (.) at a herald in TNLS will print your location as a character position and a statement, both indicated by numbers. Typing a Slash (/) at a herald in TNLS will print the location in the context of a few of the characters on either side of it. There are two ways (which you can use in DNLS too) which show your location within an ADDRESS: backslash (\), which prints statement, and slash (/), which prints context.

period [,] command: See period (BASE).

backslash [\]: See backslash.

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12ab1

12ab2

slash [/]: See slash.

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locator file: The file named <userguides, locator, > is an outline of documents. In Locator, links are arranged to lead you easily to useful views of actual documents. Branch 1 of locator instructs you how to use locator. Further guidance appears as needed in the subject files. You cannot currently access the locator file with the Help command. In TNLS, say "Print Branch userguides, locator, 1 ,1" followed by a carriage return. In DNLS say "Jump (to) Link userguides, locator," followed by CA.

Locked file: See modification.

login (to TENEX): When your terminal is connected, type <CTRL=C> to get the attention of TENEX. You will see a login message and then the TENEX herald, @, at the margin. (If you enter through the Network, it hits the first <CTRL=C> for you.) Then type your username followed by the carriage return key. Then you will see typed "(password)", and you should type your password and a carriage return. Then you will see typed "(account)", and you should type a carriage return. When the herald appears again, you have logged into TENEX.

TENEX: See TENEX,	12ae1
TENEX=herald: See TENEX=herald,	12ae2
password: See password,	12ae3
account: See account,	12ae4
NLS (How to get NLS): See NLS.	12ae5
If you're not on a TI (upper/lower case) or TTY=35: see terminal=type,	12ae6
ogout OK: The NLS command "Logout" causes you to leave both the NLS system and the TENEX Executive level at once. It is equivalent to using the Quit NLS command and then TENEX's Logout command,	12af
TNLS example: BASE C: Logout	
TERMINATED JOB #, USER	12af1
p: See lineprocessor.	12ag
	1049
SEL: Literal SELection: a synonym for content: See content.	12ah

12ab3

12ac

12ad

12ae



M menu: A numbered list of related subjects that may follow an explanation in the Help command. This list is called a menu. Typing a number followed by DK will show the explanation named. 13e Merge: Merge STRUCTURE (at) DESTINATION (into) DESTINATION OK: This command moves and combines a plex, a group, or the substructure of a branch into another of the same kind. 13f TNLS example: BASE C: Merge C: Plex (at) A: 2a1 (into) A: 5b1 BASE C: 13f1 Effects: "Merge Statement" has no meaning. If both STRUCTURES have been previously sorted with the Sort command, the merged STRUCTURE will be properly sorted. After execution, you are at the first character of the first statement of the new group or plex. 13f2 Message = one of the following: 13a message in the NLS Sendmail subsystem: Message CONTENT OK: The Sendmail subsystem command "Message" allows you to type one statement (up to 2000 characters). You may use backspace character (BC) and backspace word (BW) to edit the message and <CTRL=R> to see what you've written. 13g1 BW: See backspace. 13g1a BC: See bc. 13q1b <CTRL=R>: See CTRL=r. 13q1c The sendmail subsystem: See sendmail. 13q1d more about messages: A Journal or Sendmail message is any Item that consists of less than 2000 characters. When received, the entire message appears in the initial file of the receiving individuals. Messages are stored with other messages in large files in the Journal directory. Items over 2000 characters are called "documents". 13g1e Item: See item (SENDMAIL). 13q1e1 Initial file: See initial. 13g1e2 The Send command: See send. 13g1e3 message in the TENEX system: (MESSAGE.TXT TENEX) file: When

someone sends you a message via the TENEX SNDMSG system, a file called MESSAGE.TXT; is created to contain it. To read your unread messages in TENEX, type MESSAGE<CR>or type REA<ESC> <CR> <CR>. To read your TENEX messages in NLS, use the Message

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user=subsystem. Use the SENDMAIL subsystem to send messages in NLS. Occasionally delete your MESSAGE. TXT file so it doesn't get too big. When you delete and expunge the MESSAGE. TXT file, all of your messages go away, but the filename remains as a deleted file until you get a new message.

the message user-subsystem: Message: The user-subsystem "Message" contains the following commands for using NLS to handle SNDMSGs.

Copy Message (File) OK (to follow) DESTINATION LEVEL=ADJUST OK: The Message user=subsystem command "Copy" will copy your MESSAGE.TXT file to the DESTINATION you point to. It changes the format to make the messages easy to handle in NLS.

Move Message (File) OK (to follow) DESTINATION LEVEL-ADJUST OK: The Message user-subsystem command "Move" will copy your MESSAGE,TXT file at the DESTINATION you point to and then delete the MESSAGE,TXT file. It changes the format to make the messages easy to handle in NLS. A TENEX work file should contain your messages in case something goes wrong. 13g3b

Send Message (structure:) OK: (To (and cc):) CONTENT (Subject:) CONTENT (Message/STRUCTURE:) MSGITEM

(Status of the distribution is diplayed here) (Send the message? (Type n to add to list)) ANSWER OK

MSGITEM = Message CONTENT or Statement/Branch/Group/Plex DESTINATION: The Message user-subsystem command "Send" asks the preceding questions and then sends a TENEX SNDMSG to the MESSAGE.TXT file of the people whose usernames or IDENTS you specify. You can say "Message" for MSGITEM and TYPEIN or point to the "text" you wish to send; OR you can specify a STRUCTURE command=word and point to a STRUCTURE you have already created.

Sort Message (Plex at) DESTINATION OK: The Message user=subsystem command "Sort" orders your messages by date most recent first,

Reformat (citations in) STRUCTURE (at) DESTINATION OK: The Message user=subsystem command "Reformat" will reformat your sendmail citations to correspond with the way the Message user=subsystem command "Copy" and "Move" reformats sndmsgs including date of receipt and the distribution list if possible.

middle mouse button: See Mouse.

Minus: See also: minus (CALCULATOR), See stringposition or subtract.

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13g3e

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13g2

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13g3a

13g3c1

1303d

13g3c

modification (file): a file containing the changes you have made on an NLS file, You can edit files temporarily or permanently with the NLS BASE subsystem. Temporary modifications reside in a holding file. The name you were logged in under when you made the modifications precedes the filename in parentheses. Its version number is the same as the NLS file, but its extension is .PC; (for Partial Copy) instead of .NLS;. This file disappears after the Update, or Delete Modification command. The Update command incorporates the changes permanently into the NLS file. To delete the modifications you have made since the last update, use the Delete Modification command. See also: modifying=commands.

Logging out before updating: If you logout without updating and thus leave a modification file hanging, it will be there the next time you login.

Restrictions: The system prevents you from changing or establishing modification files for certain NLS files such as a file where someone else has created a modification file, or a file that you are not allowed to write on. You may load a file, and then someone else may load the same file and begin to make modifications on that file. If you also start to make modifications, the first OK that you hit will give you the message that the file is already being modified. The command you were inputting will be completely erased.

There is no way to view the contents of someone else's modification file: Modification files work like transparent overlays on illustrations. If some other user loads the file you are making changes on, he will not see the changes. The file will look like it did after the last update. The system tells you that the file is being modified by another. The modifications file itself is meaningless without the corresponding NLS file and there is no point in trying to load it separately.

Delete Modifications command: See delete modifications,	1314
editing commands: See commands (BASE),	13 15
temporary modification: see temporary,	13j6
Undate File command: See undate	1247

modified file: See modification.

Modify: The user=subsystem "Modify" contains three commands which are extensions of the BASE subsystem's editing commands, See also: writing,

Append Group/PLex (at) DESTINATION (join with) CONTENT OK: The Modify user=subsystem command "Append" will append all of the statements in the Group or Plex you specify to one another successively. If any of these statements has sub=statements, the

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13j

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13k

sub-statements will be placed together in order under the new single statement, when the accumulated statements reach the maximum size (2000 characters), NLS starts a new statement. See: Append (BASE).

Delete Column / Leading / Names ...

Column: Delete Column (of width beginning at) DESTINATION (through) DESTINATION OK: The Modify user-subsystem command "Delete Column" will delete the text between the points in the line you point to. It will do this in all statements in the plex with the same level as the level of the statement you point to.

Visible: Delete Visible (beginning in column of width) DESTINATION (through) DESTINATION OK: The Modify user=subsystem command "Delete Visible" will delete the text between the points in the line you point to only if the first character of the column starts with a visible. It will do this in all statements in the plex with the same level as the level of the statement you point to, 1312a1

Leading: Delete Leading (spaces in) STRUCTURE (at) DESTINATION OK / [FILTER OK]: The Modify user=subsystem command "Delete Leading" will delete spaces that begin statements, See also: FILTER,

Names: Delete Names (in) STRUCTURE (at) DESTINATION OK / [FILTER OK] The Modify user=subsystem command "Delete Names" will delete the names that begin statements. See statement=names. See also: FILTER.

Force (sentence case in) STRUCTURE (at) DESTINATION OK: The Modify user=subsystem command "Force" will change statements that are all upper case to lowercase leaving upper case characters at the beginning of the statement and following spaces after a period, questionmark, or exclamation point.

Insert Front/Back (of) STRUCTURE (at) DESTINATION (the text) CONTENT OK: The Modify user=subsystem command "Insert" augments the NLS BASE subsystem insert command.

Front: Insert Front/Back (of) STRUCTURE (at) DESTINATION (the text) CONTENT OK: The Modify user-subsystem command "Insert" adds the characters you specify for CONTENT to the beginning or end of every statement in the STRUCTURE at the DESTINATION you specify.

Filter option: Before specifying the STRUCTURE to be modified, you may type <CTRL=U> to have the insertion operate through the FILTER viewspecs you specify.





GLOSSARY

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1312a

1312b

1312c

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1314

1314a

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Insert Front/Back (of) [Filtered: VIEWSPECS] STRUCTURE (at) DESTINATION (the text) CONTENT OK:	1314a1
STRUCTURE: Statement, Branch, Group, or Plex: See structure,	1314a2
Address: Insert Address (for ident(s)) CONTENT (to follow statement at) DESTINATION LEVEL=ADJUST OK The Modify subsystem command "Insert Address" inserts the U.S. Postal Address after the DESTINATION you point to for any list of IDENTS you specify.	1314b
IDENT: See ident,	1314b1
<pre>modifying=commands: Replace, Copy, Transpose, etc. See also: file=handling.</pre>	13m
Append statement (at) SOURCE (to) DESTINATION CONTENT OK: see Append.	13m1
Break statement (at) DESTINATION LEVEL-ADJUST OK: See Break,	13m2
Copy: See Copy,	13m3
Delete: See Delete,	13m4
Edit: Edit statement (at) DESTINATION EDITSTRING DK: See Edit.	13m5
Force (Case): See Force,	13m6
Insert: See insert,	13m7
Merge: Merge STRUCTURE (at) DESTINATION (into) DESTINATION OK: See Merge,	13m8
Move: See Move,	13m9
OKINSERT: See OKINSERT.	13m10
Replace: See Replace,	13m11
Reset Case Mode: See reset case,	13m12
Sort STRUCTURE (at) DESTINATION OK: see Sort,	13m13
Substitute STRING (in) [(Filtered:) FILTER] See Substitute.	13m14
Transpose: See Transpose,	13m15
Update File: See Update,	13m16
Delete Modifications: See delete modifications.	13m17

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M

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13p

13p1

13p2

13p3

Undelete Modifications: See undelete modifications, 13m18

modifying: See writing.

Monitor: A program which remains in memory at all times and controls the coming and going of data and other programs in the machine. 130

Mouse: A handsized device normally operated by the user's right hand when using NLS from a display console. The mouse rolls freely on any flat surface, causing a cursor (or mark) on the display screen to move correspondingly. Although you need only use the first four below, almost every combination of buttons on the mouse means something. See also: DNLS, mouse-keyset, bug.

right button alone = BUG / CA: the Command Accept key. The right button on the mouse works just as the CA key on the keyboard.

- left button alone = BC: the Backspace Character key. The left button on the mouse works just as the BACKSPACE key on the keyboard.
- center button alone = CD: the Command Delete key. The center button on the mouse works just as the CD key on the keyboard.
- left¢er buttons down while typing a letter = VIEWSPEC: Typing a letter while holding the left¢er buttons down on the mouse specifies a lower=case viewspec. For a capital=letter viewspec, hold all three buttons down while typing the letter. You can specify viewspecs anytime; NLS doesn't have to be ready for a new command. Your viewspecs will change immediately, though the screen won't show the change until you input an f viewspec.
- right¢er buttons alone = OKREPEAT: Holding down the right and center buttons on the mouse as the final confirmation of a command gives you the OKREPEAT function.
- left¢er buttons alone = BW: the Backspace Word key. The left and center button on the mouse pressed at the same time and then released works just as the BACK SPACE WORD key on the keyboard. See BW.
- right&left (outside) buttons alone = ALT MODE or ESCAPE: Holding down the right and left outside buttons on the mouse works as ALT MODE or ESCAPE. It works just as the ALT MODE or ESC key on the keyboard. It may echo as <ESC>.

all-buttons alone does nothing. This can be very useful: If you have pushed a mouse button down by mistake, push down the other two, then let all three up.

center button down while typing a letter = Capital letters: Holding down the center mouse button while typing a letter causes the letter to be taken as a capital letter, 13p9



1304

1305

13p6

13p8

- left button down while giving a keyset code = numbers, etc. Holding down the left mouse button while giving a keyset code allows you to input numerical and nonalphabetic characters.
- right and center buttons down, typing a character = CTRL=CHARACTER: Holding down the right and center mouse buttons allows you to specify a CTRL=character. It works just as if you held down the CTRL key while typing the character. This feature will eventually be eliminated.
- right button down while typing characters = Marker Search (on keyset or keyboard): Holding down the right=most mouse button while typing or using the keyset inputs the name of a marker. You must finish giving the marker before you let up the mouse button. The marker with that name can be used to indicate a DESTINATION in a command.
- all=buttons down while typing a letter = CAPITAL VIEWSPEC (on keyset or keyboard): Holding down all the mouse buttons while typing a letter specifies a Capital=letter viewspec; e.g, if you type the keyset code for "k" while holding down all three mouse buttons, viewspec K will immediately be taken. You can specify viewspecs anytime; NLS doesn't have to be ready for a new command. Your viewspecs will change immediately, though the screen won't show the change until you input an f viewspec (while holding the two left buttons down).

Mouse-Keyset combinations:

	Mous	se			Mous	se	
Keyset	000	010	100	Keyset	000	010	100
00000		CD	BC	10000	p	P	0
00001	а	A	1	10001	g	Q	1
00010	b	В		10010	r	R	2
00011	С	C	#	10011	S	S	3
00100	d	D	s	10100	t	Т	4
00101	е	E	00	10101	u	U	5
00110	£	F	&	10110	v	V	6
00111	g	G		10111	W	W	7
01000	h	H	(11000	x	Х	8
01001	1	I)	11001	У	Y	9
01010	j	J	6	11010	Z	Z	=
01011	k	K	+	11011		<	1
01100	1	L	-	11100		>	.]
01101	m	М	*	11101	1	1	-
01110	n	N	1	11110	?	1	ESC
01111	0	0		11111	SP	TAB	CR.

Move: The command "Move" transfers one of the following SOURCES you specify to the DESTINATION you specify. It combines the Insert, Copy, and Delete commands. Move does not pay attention to the viewspecs you have on (i.e., it works throughout the STRUCTURE you point to whether all of it's visible to you or not), unless you specify VIEWSPECS in the FILTER option, which pays attention to level, content analyzer, names, and sequence generator viewspecs. 13p13

13010

13p11

13p12

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13q



File: Move File (from old filename) CONTENT (to new filename) CONTENT OK: The command "Move File" transfers a file from one directory to another. It is the equivalent of the TENEX Rename file command. The name of the file will change to the name you give. If you don't specify a version number, the file will be numbered one number higher than the highest version of the file with the same name (version 1 if it's a new name). The old name will appear in the origin statement until you Update the file.

TNLS example: BASE C: Move C: File (from) old filename F: latra (to new filename) T: trala BASE C:

moving around in files and printing on your terminal in TNLS: The family of Jump and Print commands are used to view information in TNLS. Jump to Address is the basic TNLS pointing command. Other Jump commands point to a character within a statement; some point to files; and some point to statements by their structural position. See also: pointing, file, structural, Jump, and printing.

Multiline Controller: a specially designed multiplexor=like device which supports the access of up to 64 terminals of varying type into a TIP.

Multiply CONTENT OK: The Calculator subsystem command "Multiply" multiplies the value of the accumulator by the number(s) you specify for CONTENT, See also: operators, accumulator, CONTENT, OK,

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13r4

13t

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NAME: the field in a FILENAME portion of a FILEADDRESS that can contain up to 39 letters, numbers, dashes, and a few other special characters. It may be preceded by a directory name and it may be followed by an extension field. You can make the system type most of it by using <ALT>, <CTRL=F>, and stars. See also: FILENAME, recognition, directory, extension.

Name (delimiters defaults): (left delimiter) CONTENT (right) CONTENT OK:

This useroptions command sets the statement name delimiters to the characters you specify for CONTENT. These will be in effect whenever you create a file or use the Reset Name delimiters command. Only one character is allowed for the left delimiter and one for the right. If you do not use this command your statementname delimiters will be NULL NULL. See also: statementname, name-delimiters, show name (USEROPTIONS), reset name (USEROPTIONS), set name (BASE), reset name (BASE), show name (BASE).

name-delimiters: the characters which enclose, and thus define for system recognition, statement names. The default name delimiters are NULL NULL. This means the first word of every statement that begins with a letter, or atsign is named and the name is the first word of the statement. With this default, you can unname any statement by adding a space (or other character) to the beginning of the statement. A new statement you TYPEIN will have the same delimiters as its source. A delimiter may be any letter OTHER than those reserved for statementnames. Invisible characters after the name before the right delimiter will be ignored. You can change 14c

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	your name delimiters with one of the following commands. See also: STRUCTURE, source, INVISIBLE, STATEMENTNAME.	14e
	Set Name (delimiters) command: See set name.	14e1
	Reset Name (delimiters) command: See reset name.	14e2
	Show Name (delimiters) command: See show (BASE).	14e3
	USEROPTIONS Name (delimiter defaults) command: See name (USEROPTIONS),	14e4
	NDDT: See NLS-DDT.	14f
	net: See network.	14g
	Network: An interconnected community of computers such as the ARPANET operating with a plan for the systematic handling and relay of computer traffic. See ARPANET.	14h
	NEWFILELINK: the part of a command that accepts the name of a new file in the form of a FILEADDRESS. See fileaddress.	141
)	<pre>next: the statement immediately following your current statement regardless of its level in the outline. If you turn to "illustration" (in Section I), 1b3 is next to 1b2; statement 2 is next to 1b3. Back is the opposite of next. The LINEFEED command in TNLS prints the "next" statement, See illustration.</pre>	145
	NEXTNAME: *statementname (preceded by a star): an address element that moves you to the first character of the next statement with that name in the NLS outline structure. To search for the first name, use 0 (statement zero) in front of star name.	14K
	EXAMPLE: If statement name is jonathan, type: 0 *jonathan If you use a statement name alone as an ADDRESS element (without *), the system will randomly search for any statement with that name. Thus NEXTNAME is slower but more predictable when two statements have the same name. See also: searching, STATEMENTNAME, BRANCHNAME.	14k1
)	NIC: an acronym for Network Information Center: A part of ARC, the NIC stimulates use and interest in the Network, supports communication among scattered research teams, provides reference about Network resources, and serves as a developmental prototype for network information centers. Reference is offered through online documentation and a query language and offline through selected mailing of printed copies. Communication is through SENDMAIL and through special online files maintained for ARC groups. See also: ARPANET.	141
	NLSEDDT: a dynamic debugging system for the NLS program environment	14m
	The plan a dridnet debugging avalen for the prodient environment.	1 14 11

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for commands to use NLS=DDT: See set NDDT (PROGRAMS).

NLS: Online System: NLS is a system for using computers to help in work based on textual information. With NLS you may read, write, publish, mail, collaborate, calculate, and program, among other things, in an integrated way augmented by the computer. The command language allows you to move around in and modify the information hierarchy. NLS groups commands into subsystems for related tasks. To find out how to do a task in NLS, see: HOW.

entering=NLS: (How to get NLS): NLS runs as a subsystem of TENEX. When TENEX is ready for commands, you will see an at sign ("@") at the margin. Type "NLS" followed by carriage return. If you use a group directory, NLS will ask for your IDENT. When you first enter NLS, the system loads for you a special file called your initial file and you are in the BASE subsystem. Unless you have altered your useroptions, the herald of the BASE subsystem, "BASE", will appear at the left margin. Then you may read or write on files. See also: Login, username, USEROPTIONS, reading, writing.

leaving NLS to TENEX: To return to the TENEX timesharing system from NLS use the Guit NLS command. After that, you can type "con" followed by carriage return at the TENEX herald to return to NLS. To break contact with TENEX entirely use the Logout command in TENEX or NLS. To leave NLS anytime for an excursion in TENEX, use the Goto TENEX command. This command issues to you a second copy of TENEX called "inferior exec". To return from this second copy to NLS, use the TENEX Quit command.

14n3 Systems in general: See systems. Information hierarchy: See Information. 14n4 14n5 Command language parameters: See Command. 14n6 BASE subsystem: See Base. 14n7 Sendmail subsystem: See Sendmail. 14n8 Useroptions subsystem: See Useroptions. Programs subsystem: user programming software See Programs. 14n9 14n10 Calculator subsystem: See Calculator. TENEX: See TENEX. 14n11

noiseword: a word typed by the system to help you understand the purpose of the command and what input is expected of you. Noisewords always appear in parentheses. You can turn off or limit noise words (as well as lessen commandword feedback) with

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14n

14n1

14n2

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Useroption's Feedback command, See also: notation, heralds, prompts.	140
Useroptions Feedback command: See feedback (USEROPTIONS).	1401
nominals: any word used as a noun. In the NLS Base, every command is made up of a verb followed by a nominal. Some of the most common nominals found in NLS are:	14p
Character: See character.	14p1
Word: See word,	14p2
Number: See number,	14p3
Visible: See visible,	14p4
Invisible: See invisible.	14p5
Text: See text,	14p6
Link: See link,	14p7
Statement: See statement,	14p8
Branch: See branch,	14p9
Group: See group,	14010
Plex: See plex,	14p11
File: See file.	14p12
Directory: See directory.	14p13
non-alphanumeric: See character,	149
non-printing characters (invisible): See invisible,	14r
otation for command syntax: special symbols to help explain commands. You may see notation for command syntax when you type questionmark, as the first line of many command explanations, in prompts, and when you type <ctrl=s>. Each special notation is described below. If you understand the meanings of these special symbols, you can learn how to use any command by reading its command syntax.</ctrl=s>	145
Commandwords: First Letter Capitalized: See commandword,	1451
VARIABLES: ALL CAPITAL LETTERS See VARIABLES,	1452
(noisewords): words in parentheses: See noiseword,	14s3

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<pre>[optional] things in square brackets: type <ctrl=u> See optional,</ctrl=u></pre>	1454
<pre>!comments! words in exclamation marks !not part of command!: see also: comments (SENDMAIL).</pre>	14s5
<anglebrackets>: a notation that helps to depict See anglebrackets.</anglebrackets>	1456
noun: See nominals,	14t
ULL:	14u
null CONTENTTNLS <ca>: Type a command accept <ca> if you want nothing in the CONTENT.</ca></ca>	14u1
<pre>null CONTENT==DNLS <ctrl=n>: If, in the part of the command asking for for CONTENT, you want to specify nothing, use either of the following:</ctrl=n></pre>	
==typing any character then Backspace Character (BC) and Command Accept,	1402
as a name delimiter (NULL): See name-delimiters.	14u3
UM: number(s) followed by an OK and added to the accumulator in the Calculator subsystem. Any character that is not a number is simply ignored.	14v
umber as:	14w
Number: a special string of digits, used chiefly with the calculator subsystem. Numbers may be preceded by a plus or a minus sign and may include decimal points and commas only in certain positions. Pointing to any character position in the number will serve to point to the whole number.	14w1
special effects editing numbers. When replacing a number with the Replace Number command that is smaller than the original, spaces will be inserted to keep the right side of the number in the same position. Note that 12345 in 789,12345, is a legal word but not a legal number because the comma is not in a legal position; and in <journal==12345,> 12345 is not a legal number because there are two minus signs. Also note that if you use the Number commandword to edit 75 in the date 10=DEC=75, the dash after DEC will be carried with the 75. If you try to Move or Copy a legal number to follow an entity which is not a number, you will get the message "illegal number" and the computer will not do the edit.</journal==12345,>	14w1a
calculator numbers: See numbers (CALCULATOR).	14w1b

14w2

14w2a

Number Assign/Previously ...: The Sendmail subsystem command "Number Assign" shows you the number of your current item. The command "Number Previously" allows you to give a number that you have already reserved. In addition, there is a Reserve command elsewhere in the Sendmail subsystem for getting other types of numbers. See also: numbering (SENDMAIL).

Assign: Number Assign OK: The Sendmail subsystem command "Assign" allows you to see the number that has been assigned to your current journal item. If you do not use this command, Sendmail will not tell you the number of your item until you see it in the author branch of your INITIAL file. Use Sendmail's Reserve command to get a number you can use at a later time. See also: journal=number.

Journal number:See number (SENDMAIL),14w2a1Journal item:See item (SENDMAIL),14w2a2Sendmail subsystem:See sendmail,14w2a3

Previously: Number Previously (Reserved) CONTENT OK: The Sendmail subsystem command "Previously" allows you to specify a previously reserved number for the number of your current journal item. Use Sendmail's Reserve command to reserve a number. The Send command will be carried out only if one of the authors or the logged-in user has previously reserved but not used that number. You must use the Sendmail RFC command to use a previously reserved RFC number. 14w2b

The Number Assign command:See number assign (SENDMAIL).14w2b1The Reserve numbers command:See reserve.14w2b2The Done command:See done.14w2b3The RFC command:See RFC.14w2b4Journal number:See number (SENDMAIL).14w2b5

Numbering system: The Sendmail Journal number system consists of a single sequential list of numbers starting from 1 and counting to 31000 as of July 1974. There are many overlapping subsets of these numbers (some subcollections have secondary numbering sequences) which have various ambiguous and synonymous names in common usage. All of the numbers in the sequential list are called Catalog Numbers, Journal Numbers include only items that have been entered via the Sendmail (formerly Journal) subsystem. In addition, there are XDOC numbers which refer to external documents which have been given a number but have not been entered via the Sendmail subsystem. You may reserve a Journal number(s) to be used at a later time with the Sendmail Reserve command. Reserved Journal numbers are also called "Preassigned" numbers.

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14x

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XDOC: acronym for external document See XDOC.	14x1
Subcollections: See subcollections,	14x2
Reserving a number: See number assign.	14x3
Using a number: See number previously (SENDMAIL),	14x4

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numbers	(recognizable	to the Calculator):	
123456	=123456	123456=	
123.12	\$123.00	.12345-	
123,456	(\$1,123,12	3) 12,123.123+	
.1	,12=	0.11	
+1			
You may	also treat the	values of any of the	ten accumulators as
operand	ds with the Use	Saved (Accumulators)	command, See also:
Saved,	number, accumu	lator.	



14y



o Viewspec: frozen statements on (DNLS only): "Display the frozen statements." If you set viewspec o, any statements that have been set aside with the Freeze Statement command will be displayed at the top of the window, separated by a dotted line from the rest of the display; if none have been frozen only a dotted line will appear (which is useful with horizontal split screens). Viewspec p turns o off.

O Viewspec: user sequence generator on: "Turn on user-written sequence generator," Viewspec P employs the system's standard sequence generator in lining up statements for output. It is possible (but only knowing advanced L10 programming) to write your own sequence generator program. Viewspec D, if turned on, would then use yours instead of the standard one. See also: Sequence, Capital=P.

Obsoletes (item number(s)) CONTENT OK: The Sendmail Subsystem command "Obsoletes" places a note in the header of the journal item being sent stating that the item number you specify for CONTENT is obsoleted (replaced) by this item and the fact is noted in the indices. There is no further use of this command at the present time.

Offline (item == located at) CONTENT OK: The Sendmail subsystem command "Offline" allows you to mail a citation for and give a number to an offline item. Use the CONTENT selection in SENDMAIL to describe the offline location. See also: xdoc.

number: See number (SENDMAIL).

CONTENT: See content.

OK: command confirmation: Most commands must be terminated by one of three confirmation functions: CA (Command Accept <CTRL=D>); OKREPEAT <CTRL=B>; or OKINSERT <CTRL=E>, The system will prompt you with "OK: " when one of these OK functions is expected. You may hit a CD (Command Delete <CTRL=X>) at any time in a command (before the final CA) to stop the command. See also: prompts, CTRL, CTRL=O.

CA: Command Accept See CA.

OK=colon: OK: CA: <CTRL=D>; RPT: <CTRL=B>; OKINSERT: <CTRL=E>; CD: <CTRL=X>,

When prompting is on and you have finished giving a command, NLS prompts you with "OK:". It expects you to confirm that you 15a

15

15d

15d1

15d2

15c

15e

3.62

15e2

want the command to take place as written. CA, OKREPEAT, or OKINSERT will serve as confirmation.

OKINSERT: <CTRL=E>: Typing the character for OKINSERT, <CTRL=E>, at the end of a command will start another Insert Statement command. This allows you to continue to insert statements following the one you just inserted without having to give the command "Insert Statement" again. It is as if you typed CA, Insert Statement, and pointed to your current location. L: will appear prompting you for LEVEL=ADJUST but you can ignore it by just starting to type. OKINSERT continues to repeat until you type a CD. Typing another <CTRL=E> while in repeat mode will act like CA. See also: OKREPEAT, CTRL=character. 15e3

LEVEL-ADJUST: See level-adjust, 15e3a

Insert Statement command: See insert statement.

Making some other key work like <CTRL=E>: See control (USEROPTIONS).

OKREPEAT: <CTRL=B>: Typing the character for OKREPEAT, <CTRL=B>, at the end of a command, will execute the command and then begin to repeat the same command from the beginning. Each commandword will be repeated until the system reaches the first part not a commandword that you can specify. Once you have gotten into this REPEAT mode, the last command will be repeated no matter how you confirm it, until you type <CTRL=X>. In DNLS press down and release the two right=most mouse buttons for OKREPEAT, See OKINSERT.

RPT: OKREPEAT prompt See RPT.

Trick with the Execute command: You may use the Backspace Character function to back out of the command and specify another command but remain in REPEAT mode. You may also use this feature to continue the use of "Execute" in another subsystem. Follow Execute and the command you choose with <CTRL=B>, When the command repeats, back up to the herald using <CTRL=A>, and then specify some other command in the normal manner. You can keep on this cycle indefinitely. Command Delete returns you to the first subsystem. See also: backspace.

CD: Command Delete See CD.

Note--If a TYPEIN or a LEVEL-ADJUST or VIEWSPECS or an ADDRESS immediately precedes OK, its terminator serves as the OK character, so if you want to REPEAT the command or get into INSERT mode, terminate the TYPEIN, LEVEL-ADJUST, VIEWSPECS, or ADDRESS with the OKINSERT or OKREPEAT instead of CA.

15e4

15e3b

15e3c

15e5

15e4b

15e6

OLDFILELINK: the part of a command that wants you to specify the name of an existing file in the form of a FILEADDRESS, see fileaddress,	15f
on: to be on a statement means you are located at that statement. There are several things you can turn on and off in NLS. See also: useroptions, Set Content (BASE), viewspecs.	15g
Operands: those parts of a command you specify after you have typed the COMMANDWORDs and before you have typed the OK command terminator, see also: COMMANDWORD, OPERATORS, OK, The operands are as follows:	15h
DESTINATION: See DESTINATION.	15h1
CONTENT: See CONTENT.	15h2
SOURCE: See SOURCE.	15h3
stars=in=brackets: [**]: See stars.	15h4
LEVEL=ADJUST: See LEVEL=ADJUST.	15h5
VIEWSPECS: See VIEWSPECS.	15h6
ANSWER: See ANSWER.	15h7
operator: See commandword,	151
operator: See commandword. operator: the person who runs the computer. You may see her logged into the system as a user named "operator." Frequently it is useful to contact the operator for help with problems, particularly recovery from bad files.	15i 15j
<pre>operator: See commandword. operator: the person who runs the computer. You may see her logged into the system as a user named "operator." Frequently it is useful to contact the operator for help with problems, particularly recovery from bad files. operators: Arithmetic operators are always entered in the Calculator subsystem directly from the keyboard and followed by an operand. Valid operators include:</pre>	151 15j 15k
<pre>operator: See commandword. operator: the person who runs the computer. You may see her logged into the system as a user named "operator." Frequently it is useful to contact the operator for help with problems, particularly recovery from bad files. operators: Arithmetic operators are always entered in the Calculator subsystem directly from the keyboard and followed by an operand. Valid operators include: NULL or <sp> or Add or +: to add to accumulator: See add.</sp></pre>	151 15j 15k 15k1
<pre>operator: See commandword. operator: the person who runs the computer. You may see her logged into the system as a user named "operator." Frequently it is useful to contact the operator for help with problems, particularly recovery from bad files. operators: Arithmetic operators are always entered in the Calculator subsystem directly from the keyboard and followed by an operand. Valid operators include: NULL or <sp> or Add or +: to add to accumulator: See add. Subtract or -: to subtract from accumulator: See subtract.</sp></pre>	151 15j 15k 15k1 15k2
<pre>operator: See commandword. operator: the person who runs the computer. You may see her logged into the system as a user named "operator." Frequently it is useful to contact the operator for help with problems, particularly recovery from bad files. operators: Arithmetic operators are always entered in the Calculator subsystem directly from the keyboard and followed by an operand. Valid operators include: NULL or <sp> or Add or +: to add to accumulator: See add. Subtract or -: to subtract from accumulator: See subtract. Multiply or * or x: to multiply to the accumulator: See multiply.</sp></pre>	151 15j 15k 15k1 15k2 15k3
<pre>operator: See commandword. operator: the person who runs the computer. You may see her logged into the system as a user named "operator," Frequently it is useful to contact the operator for help with problems, particularly recovery from bad files. operators: Arithmetic operators are always entered in the Calculator subsystem directly from the keyboard and followed by an operand, valid operators include: NULL or <sp> or Add or +: to add to accumulator: See add. Subtract or -: to subtract from accumulator: See subtract, Multiply or * or x: to multiply to the accumulator: See multiply. Divide or /: to divide into the accumulator: See divide.</sp></pre>	151 15j 15k 15k1 15k2 15k3 15k4
<pre>operator: See commandword. operator: the person who runs the computer. You may see her logged into the system as a user named "operator." Frequently it is useful to contact the operator for help with problems, particularly recovery from bad files. operators: Arithmetic operators are always entered in the Calculator subsystem directly from the keyboard and followed by an operand. valid operators include: NULL or <sp> or Add or +: to add to accumulator: See add. Subtract or -: to subtract from accumulator: See subtract. Multiply or * or x: to multiply to the accumulator: See multiply. Divide or /: to divide into the accumulator: See divide. OPT: and []: are prompts for OPTION character <ctrl-u>: See optional.</ctrl-u></sp></pre>	151 15j 15k 15k1 15k2 15k3 15k4 151
<pre>operator: See commandword. operator: the person who runs the computer. You may see her logged into the system as a user named "operator." Frequently it is useful to contact the operator for help with problems, particularly recovery from bad files. operators: Arithmetic operators are always entered in the Calculator subsystem directly from the keyboard and followed by an operand. valid operators include: NULL or <sp> or Add or +: to add to accumulator: See add. Subtract or -: to subtract from accumulator: See subtract. Multiply or * or x: to multiply to the accumulator: See multiply. Divide or /: to divide into the accumulator: See divide, OPT: and []: are prompts for OPTION character <ctrl-u>: See optional. option: See optional.</ctrl-u></sp></pre>	151 155 15k 15k1 15k2 15k3 15k4 151

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option mode: There are some optional parts in commands that won't be available unless you specifically ask for them. Type the character <CTRL=U> (OPTION character) when prompted by something in square brackets [**] or OPT: , and then type questionmark to see the part that's between the squarebrackets. See also: prompts, 15n 15n1 options vs alternatives: See alternatives. origin: statement==Statement zero: statement 0 (zero) that is found

in every file. It is the structural source; one level above the first level statements (numbers 1, 2, etc. in the illustration). The system writes and maintains the following information in the origin statement: < FILEADDRESS, DATE, TIME, IDENT (of last person to update the file), and ; ; ; ; (four semicolons). See also: header, statementnumber.

modifying the origin statement: You can also modify the origin statement. You can add output processor directives and the AccessList for a private file to the origin statement.

AccessList: See Set NLS Private. 1501a directives: See directives. 1501b

Output: In general output is the product that leaves a computer system. In the NLS world it is most often printed paper, but may also be tapes containing files or files shipped by electronic means to other computer systems. Output from NLS usually means conversion to some sequential form.

The command "Output Printer" sends items through what is called the Output Processor. In the BASE subsystem, Load File userguides, locator,. It will take you to the Output Processor Userguide. See also: hardcopy.

Assembler: Output Assembler File/Append CONTENT OK: The command "Output Assembler File/Append" allows you take an NLS file holding assembly language code in a certain format and copy or append it to a sequential file suitable for the assembler. 15p2

TNLS example: BASE C: Output C: Assember file T: prog OK: Output for Assembler in Progress BASE C:

COM: Output (to) COM OK: The command "Output (to) COM" allows you to produce a sequential file formatted for Computer Output to Microfilm, The command creates a job identified by your initials in the directory COM. Output Processor directives will be considered in formatting the file. Printing begins from the

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control.

15p

15p1

15p2a

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statement where you are located. The compiled file should be placed in the <COM> directory (as it is when you just say OK: without specifying any of the below), then contact Dean Meyer, Dirk van Nouhuys or Ann Weinberg at SRI=ARC. See <userguides, op=guide, 1>.

TNLS example: BASE C: Output C: COM OK: Processing Output BASE C:

Append: Output (to) COM Append (to file) CONTENT OK: The command "Output (to) Com Append" allows you to produce a sequential file formatted for Computer Ouput to Mirofilm and appends it to the file at the FILEADDRESS you specify for CONTENT.

File: Output (to) COM File (to file) CONTENT OK: The command "Output (to) COM (to file)" allows you to Create a sequential file formatted for Computer Output to Microfilm at the FILEADDRESS you specify for CONTENT. It does not copy the file to the printer.

Copies: Output (to) COM Copies CONTENT OK: The command "Output (to) COM Copies" allows you to specify the number of copies for CONTENT that will be printed on the line printer. No file will be created in your directory. See also: output com.

Test: Output (to) COM Test OK/File... The command "Output (to) COM Test formats the file and places special symbols in it to represent what the COM version would look like on a line printer and prints it on the printer if you type an OK. Instead of OK, you can say "File" and have the COM test appear in the file with the fileaddress you specify for CONTENT. Output (to) COM Test File CONTENT OK:

Journal: Output Journal (quickprint) OK: The command "Output Journal" looks for a statement named "journal", such as in your initial file. Then it prints one copy on your computer's line printer of each journal citation followed by the complete item (except for the origin statement in a file). To see only those items you have not already seen, you must move the items you have seen out of the branch named "journal". See also: journal, statementname, Move STRUCTURE, sendmail, initial.

TNLS example: BASE C: Output C: Journal Quickprint OK: Output Journal Quickprint in Progress BASE C:

Append: Output Journal (quickprint) Append (to file) CONTENT OK: The command "Append Output Journal (quickprint) Append" 15p3a

15p3

15p3c

15p3b

15p3d

C. S. S. S.

15p3e

15p4

15p4a

appends the sequential file generated from journal items to the sequential file you specify for CONTENT.

Copies: Output Journal (quickprint) Copies CONTENT OK: The command "Output Journal (quickprint) Copies" prints on the line printer as many copies as you specify for CONTENT. This command prints from the file you have loaded anything you have in a branch named "journal." Each journal item and the complete text of any links that are shown are printed,

File: Output Journal (quickprint) File (to file) CONTENT OK: The command "Output Journal (quickprint) File" inserts the journal items as a sequential file named whatever you specify for CONTENT.

Printer: The command "Output Printer" will produce a sequential file in directory <Printer> formatted for the line printer. Output Processor directives will be considered in formatting the file. Printing begins from the statement were you are located. Any files in the <PRINTER> directory will be printed then deleted. If you wish to save the print file, specify a filename in another directory and copy it to the <PRINTER> directory when you want a copy. See (userguides, op=intro, 3). See also: sequential, FILEADDRESS.

TNLS example: BASE C: Output C: Printer OK: Processing Output BASE C:

OK: Output Printer OK: The command "Output Printer" prints it on the line printer. 15p5b

Copies: Output Printer Copies CONTENT OK: The command "Output Printer Copies" prints on the line printer as many copies as you specify for CONTENT.

File: Output Printer File (to file) CONTENT OK: The command "Output Printer File" creates a sequential file named whatever you specify for CONTENT, 15p5d

Append: Output Printer Append (to file) CONTENT OK: The command "Output Printer Append" appends the processed file to the sequential file you specify for CONTENT. 15p5e

See also:

processor: Output Processor: The NLS procedures that processes NLS files into sequential files suited to drive devices that produce hardcopy.

Quickprint: Output Guickprint OK: The command "Output Quickprint" prints hardcopy at the line printer of the computer

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15p4b

15p4c

15p4d

15p5

15p5a

15p5c

15p5f

15p5g

where you are logged in. It observes viewspecs in force but not output printer directives, which remain as text in the printout. The printout is paginated and bears the file header. Quickprint runs more than 10 times faster than Output Printer. Output Quickprint compiles your file to a printer file just like the view you would get with a Print command but paginated. Printing begins from your current location. Intead of OK: you can specify one of the following alternatives.

TNLS example: BASE C: Output (to) C: Quickprint OK: Output Quickprint in Progress BASE C:

Append: Output Quickprint Append (to file) CONTENT OK: The command "Output Guickprint Append" allows you to specify for CONTENT the FILEADDRESS of a sequential file to which your quickprint is to be appended.

Copies: Output Quickprint Copies CONTENT OK: The command "Output Quickprint Copies" allows you to specify the number of copies to be printed for CONTENT.

File: Output Quickprint File CONTENT OK: The command "Output Quickprint File" allows you to save a print file after it has been printed. You specify a FILEADDRESS for CONTENT and when you want to print it again, you copy the file to the <Printer> directory. Any files in the <PRINTER> directory will be printed and then deleted.

No: Output Quickprint No (headers) OK/C: The command "Output Quickprint No" prints your file so that the only thing appearing at the top=right of each page is "Page #", Instead of OK, you may also specify these commandwords:

Append: Output Quickprint No (headers) Append (to file) CONTENT OK:

The command "Output Quickprint No (headers) Append" allows you to specify a sequential file to which your quickprint is to be appended. CONTENT wants you to give the FILEADDRESS of a sequential file.

Copies: Output Quickprint No (headers) Copies CONTENT OK: The command "Output Printer No (Header) Copies" allows you to specify the number of copies to be printed. Content wants you to give a number.

File: Output Guickprint No (headers) File CONTENT OK: The command "Output Quickprint No (headers) File allows you to save a print file (that has no headers) after it has been printed, You specify a FILEADDRESS for CONTENT and when you want to print it again, you copy the file to the <Printer> directory. Any files in the <PRINTER> directory will be printed and then deleted. If you wish to save the 15p6

15p6a

15p6b

15p6c

15p6d

15p6e

15p6e1

15p6e2

print file, specify a FILEADDRESS for CONTENT and copy it 15p6e3 to the <printer> directory whenever you want a copy. Remote: Output Remote (printer -- TIP): The command "Output Remote" will compile a print file, considering directives, and send it to a printer on a network TIP. Remote printing uses a printer connected to a TIP at your site. You must supply the number of an available TIP port to the command. You may choose not to send form feeds (page breaks); they may be simulated with line feeds, or you can send no page breaks at all. You may have the printer wait after each page if you like. You may have it 15p7 wait to start until you say go. TNLS example: BASE C: Output C: Remote printer==TIP T: radc=tip Port T: 4 Send Form Feeds? C: Yes Wait (at) page breaks? C: No GO? CA:/C: Output Remote printer in Progress 15p7a BASE C: 15p7b form feed: See formfeed. 15p7c line feed: See <LF>. 15p8 Sequential: Output Sequential. TNLS example: BASE C: Output C: Sequential C: File T: buz OK: Output Sequential in Progress 15p8a BASE C: Append: Output Sequential Append (to file) CONTENT OK: The command "Output Sequential Append" appends the sequential output from your file to the sequential file whose FILEADDRESS you specify for CONTENT. An NLS file may be converted to a sequential text file with the Output Sequential command. The filename extension will default to "TXT". 15p8b File: Output sequential File CONTENT OK: The command "Output Sequential File" converts an NLS file to a sequential text file, The filename extension will default to "TXT", See 15p8c also: FILEADDRESS. Terminal: Output Terminal OK: /File ... The command "Output Terminal" will process a file considering directives, like the Output Printer command, but it will print at your terminal. You may choose not to send form feeds when a new page starts; they may be simulated with line feeds. You may have the output wait after each page if you like. "Output Terminal File" will create

a sequential file properly formatted that may then be sent via sndmessage, copied over the ARPANET, or to the printer, <CTRL=O> will abort the printing, See also: commands, output printer, sequential,

TNLS example: BASE C: Output C: Terminal Send Form Feeds? Yes Wait (at) page breaks? No Go? Yes Output Terminal in Progress BASE C:

syntax: Output Terminal DK: (send form feeds?) CHOICE (wait at page break?) ANSWER (Go?) START CHOICE = Yes or No (simulate?) ANSWER START = Yes or OK!same as Yes! or No (Type CA when ready, CD to abort) <SP>

ownership: See privacy.

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15g

15p9b

15p9

15p9a

P 16 p Viewspec: frozen statements off (DNLS only): "Don't display the frozen statements." This viewspec turns off viewspec o; the frozen statements and/or dotted line in the window will disappear, but this does not unfreeze the statements and they will appear again upon setting Viewspec o. The command "Release" unfreezes statements. 16a This is a default viewspec. P Viewspec: user sequence generator off: "Do not use user-written sequence generator program." This viewspec returns control to the system's standard sequence generator in lining up statements for output. Viewspec 0 switches to a user-written sequence generator program (writing one requires knowing advanced L10 programming), 16b This is a default viewspec. See also: sequence, Capital=0. Packet: strings of bits bounded by routing information which form 16C the transmission units in the ARPA net. pages: 16d in TNLS Print command: See E. 16d1 in Output Guickprint: See output quickprint. 16d2 online (Jump to Next): See next. 16d3 the Useroptions subsystem "Printoptions Page" command: See page 16d4 (USEROPTIONS). pages on the disk: Computer (disk) storage space is divided into disk pages of 512 36-bit words. These equal approximately one typewritten page (or about 250-300 English words). The amount of text in a computer page can be roughly equal to the amount of text on a page of paper but they are two different things. To find out how many disk pages are allocated and used by a file, use the Show File Size command. To find out how many disk pages are allocated and used by a directory, use the size option in the Show Directory command. 16d5 command to Show File Size: See Show File Size. 16d5a 16d5b command to Show Disk space status: See Show Disk. pagination: The output from your terminal when the Print commands

are used will be divided into pages if viewspec E is on. Pages are numbered, and a cutting line consisting of ==="s is generated before the start of a new page. You can control the margins and page sizes

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with the Printoptions command in the Useroptions subsystem. See also: Capital=E, Printoptions (USEROPTIONS). 16e paragraph: See statement. 16f parens () (problems with using): Since parentheses are legal characters in a filename, placing two links delimited by parens next to each other not separated by a space causes an irresolvable confusion. Also, it is possible for parenthetical clauses in a statement to become confused with links. If you are using the Link entity while editing a link that does not have proper syntax, it is possible to end up editing the parenthetical clause instead. To avoid confusion, we suggest you use angle=brackets <> instead of parentheses in links. 16g partial copy: now referred to as Modification file. See also: search. See modification. 16h Password: the string of characters necessary for the computer to recognize you at login and necessary for connecting to the directory of another user. When you type a password, no characters appear. There is a CHANGE PASSWORD command in TENEX. See also: IDENT. 16i pattern: content=analyzer pattern: A content=analyzer pattern is different from a content-analyzer program in that it does not include all of the lines of L10 code necessary for the program. It just consists of a string of character and special symbols that specify what to look for, when a content=analyzer pattern is specified by the "Set Content To" command in the BASE subsystem or by placing the pattern between semi=colons in the viewspec field of a link, the proper lines of L10 code are automatically called to make the pattern work as a content-analyzer program. For the elements of content=analyzer patterns, see the L10 User's Guide. COMPARE content-analyzer program. 161 The Set content (pattern) command in Base: See set content. 1611 content-analyzer patterns in the viewspec field of a link: See semicolons. 1612 Square=brackets in content=analyzer patterns: See Square=brackets. 1613 .PC; designates: this file is a modification file: See modification. 16k PDP=10: Since 1970, all versions of NLS have run on Digital Equipment Corporation's (DEC) PDP=10 computer under the TENEX time-sharing system developed at BBN. The asynchronous arithmetic Processor has a 1-microsecond cycle and uses 36-bit words paged in a BBN paging box into 512-word pages. 161 period: 16m

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in an address expression: See POSITION.	16m1
in filenames: See filename.	16m2
as a command: See period .	16m3
period: [TNLS only]: Typing the period key at the herald of a subsystem prints your statement number, or SID if viewspec I is on, followed by a number indicating how many characters you are to the right of the beginning of the statement, COMPARE address slash,	16n
TNLS example: BASE C: . = 2d +12 BASE C:	16n1
Playback Record (of session from file) CONTENT (simulate recorded	
timing?) ANSWER OK: The command "Playback Record" will pass control to the file you recorded on and precisely the same commands will be seen and executed on the file you were working on as during the control session. This will happen in approximately the same timing if you ANSWER with a y (for yes). If you ANSWER with an n (for no), the session will playback as fast as it can. CONTENT wants you to TYPEIN or point to the FILEADDRESS of the file you recorded on.	160
TNLS example: BASE C: Playback C: Session (from) file T: rf [commands recorded on file will be executed here] BASE C:	1601
Effects: you should be careful that everything is set up properly when you playback the session. If you get into trouble, <ctrl=o> stops the playback.</ctrl=o>	1602
Start Record command: See start,	1603
<pre>plex: a specified branch, plus all the other branches having the same source. In the illustration, to be found under I, the plex defined (and addressed) by statement 3a consists of branches 3a, 3b, and 3c (i.e. statements 3a, 3b, 3c, 3c1, and 3c1a). Plex 3b and 3c are exactly the same as 3a,</pre>	165
illustration of file structure: See illustration,	16p1
Plex (at) SOURCE OK: The Sendmail Subsystem command "Plex" allows you to send a Plex, Specify the Plex to be mailed with a SOURCE specification, VIEWSPECS do not matter.	16p2
Plex: See plex.	16p2a
SOURCE: See source.	16p2t

1	P	
	plus command: +: See add.	16q
	Plus: + in addresses: See stringposition,	16r
	point: used as a noun to refer to a character in a line, used as a verb to specify a character in a line,	165
	Pointing to information: addressing and bugging: moving to a specific character within a file. You point in this way whenever a command asks for an ADDRESS (prompts you with A:). In DNLS, you can also point by bugging with the mouse. If a link appears in the text of a file, you may point at the link and then indicate to the system that you want to go to the place named in the link. See also: information.	16t
	ADDRESS: See address.	16t1
	locating your position in a file: See locating,	16t2
	bugging: See bug,	16t3
	Group=Text: pointing See Group=Text,	16t4
1	Trick: See Trick,	16t5
	Portrayal Generator: The NLS code that creates something formatted for view by a human. POSITION: in and among files (preceded by a period): These infile address elements, preceeded by a period, move you in relation to	16u
	your current location in the direction that corresponds to the character you type, A number before any of these letters indicates the number of moves (default for number is 1).	16 v
	,b back: See back,	16v1
	.c next occurrence of content: See contentaddress,	16v2
	"d down: see down,	16v3
	,e end: See end.	16v4
	,fr file return: See fr,	16v5
	,h head: See head,	16v6
	,1 link: See link,	16v7
	n next: See next.	16v8
	,o origin: See origin,	16v9
	.p predecessor: See predecessor,	16v10

	P	
, r	return: See d.	16v11
, S	successor: See successor,	16v12
,t	tail: See tail.	16v13
"u	up: See up.	16v14
. W	next occurrence of word: See contentaddress,	16v15
redeces	sor: the statement preceding a given statement at the same	
level a	and having the same source. In the illustration, the essor of 3c is 3b; statement 1 is the predecessor of 2 (which	

is called the successor). Statements either have one predecessor or none, "Head" Statements such as the origin statement and statement 1 never have predecessors. See also: illustration.

Print (in TNLS): The TNLS command "Print" types at your terminal what you specify.

File: Print File OK: The command "Print" prints your entire file with default viewspecs without affecting your current viewspecs or your location. To select a starting point and view of a file for printing, use the print STRUCTURE command. See: Print STRUCTURE, Print Rest.

Effects: Typing <CTRL=0> will stop the printing, After execution, you are in the same statement you were when you started this command. You may have TNLS paginate your output with any print command; See also: CTRL, pagination.

Journal: Print Journal (mail) OK: The command "Print Journal" will look for a statement named "journal", as in your initial file. Then it prints at your terminal each journal citation followed by the complete item. To only get those items you have not already seen, you must move the items you have seen out of the branch named "journal", See also: statementname, Move STRUCTURE, sendmail, citation, item, Output Journal.

Rest: Print Rest OK: The TNLS command "Print Rest OK" will print the rest of your loaded file, starting with the statement you are currently at. This command will not affect your location or your viewspecs. To select a starting point and view of a file for printing, use the Print STRUCTURE command, Typing <CTRL=O> will stop the printing, see: print STRUCTURE, Print File,

STRUCTURE: Print STRUCTURE (at) DESTINATION VIEWSPECS OK: This group of "Print" commands prints at the terminal the particular STRUCTURE in a file you specify, according to the viewspecs you give to control the format of the printout. If you give no viewspecs, your current viewspecs will control printing,

TNLS example:

p:

16x4

16w

16x

16x1

16x1a

16x2

16x3

BASE C: Print CA:/C: C: Branch (at) A: alice V: m 3 (alice) The Walrus 3a "The time has come," the Walrus said, 3b "To speak of many things, 3b1 Of shoes and ships and ceiling wax, 3b2 of cabbages and kings, 3b3 Of why the sea is boiling hot, 3b4 And whether pigs have wings." BASE C: 16x4a Effects: Typing <CTRL=0> will stop the printing. After execution, you will be at the first character of the first statement printed, i.e., the statement you were in when you started this command. Any viewspecs you entered remain in effect until you change them again. 16x4b STRUCTURE: Statement, Branch, Plex, or Group: See STRUCTURE. 16x4c See also: Output, viewspecs, STRUCTURE, CTRL. 16x5 printer: The directory "printer" contains files that are being or are waiting to be printed on your computer's line printer. If you accidentally print something big and cannot delete and expunge it from this printer directory, notify your computer's operator to halt the printer. See also: output. 16V printer: printing on your computer's line printer: The Output Processor subsystem allows users to format printed documents. You may control page size, position of text, indentation, numbering, headers, footers, and many other features through embedded directives. To learn the directives, read the Output Processor User Guide. The Output Processor converts NLS files either to hardcopy at a line printer or to files printable later on printers that accept ASCII II sequential files. See also: ARC, output. 16z Output Quickprint command: See Output Quickprint. 16z1 Output Printer command: See Output Printer. 16Z2 Output Journal Quickprint command: See Output Journal. 16z3 remote: printing at a TIP: See Output Remote. 16z4 COM: an acronym for Computer Output to Microfilm See COM. 1625 Problems with some Printers: Certain printers require adjustments in page size by means of directives on special processes to delete control characters. If you run into trouble with the way your printer presents files that have passed through the Output Processor, report the problem to feedback. 16z6

P
&SRI=ARC 21=NOV=75 19:38	22132
printing characters (visible): ! " # \$ % & " () * + , = . / 0 1 2 3 4 5 6 7 8 9 : ; < = > @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] " _ a b c e f g h i j k l m n o p g r s t v W x y Z.	16a@
printing on your terminal: TNLS can print at your terminal through two groups of commands which allow you more or less formatting, 1) The Print commands allow simple formatting, such as pagination. Printing format is also controlled by Viewspecs. 2) Output Printer uses over two hundred directives that give you essentially a printer's control of layout. Read the Output Processor Users'	
Guide. See also: printing, printer, reading, pointing,	16aa
pagination: See pagination,	16aa1
Print commands in BASE subsystem, See Print,	16aa2
output commands: See Output,	16aa3
formatting viewspecs: See formatting.	16aa4
Printoptions PRINTSPECS CONTENT OK: The Useroptions subsystem command "Printoptions" allows you to specify the number of spaces for level Indenting and Tab stop settings. You can set the left and right margins used for TNLS Print commands. You can specify bottom margin and page size used at your terminal when pagination (viewspec E) is on in the Print commands.	16ab
related commands: See also: Print, Show Printoptions (USEROPTIONS), Reset Printoptions (USEROPTIONS),	16ab1
PRINTSPECS:	16ab2
Right: Printoptions Right (margin is column) CONTENT OK: The Useroptions subsystem command "Printoptions Right (margin is column) allows you to specify a Number for the column where your printing should stop at the right margin of the page. CONTENT wants a specific Number. This affects both paginated output (when viewspec E is on) and regular TNLS output immediately upon using the TNLS Print commands. See also: pagination, E Viewspec.	16ab3
Left: Printoptions Left (margin is column) CONTENT OK: The Useroptions subsystem command "Printoptions Left (margin is column)" allows you to specify a Number for the column where your printing should start at the left margin of the page, CONTENT wants a specific Number, This affects both paginated output (when Viewspec F is on) and regular TNLS output immediately upon	

Bottom: Printoptions Bottom (margin is line) CONTENT OK: The Useroptions subsystem command "Printoptions Bottom (margin is line)" allows you to specify a Number for the number of lines from the top of the page down to where the printing will stop for

using the TNLS Print commands. See also: pagination, E

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Viewspec.

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16ab4

that page, CONTENT wants a specific number. This takes effect immediately upon using the TNLS Print commands whenever Viewspec E is on, See also: pagination, E Viewspec.

Page: Printoptions Page (size is (lines)) CONTENT OK: The Useroptions subsystem command "Printoptions Page" allows you to specify a number for CONTENT for the number of lines from the top of the page to the bottom of the page (the place below the page numbers where dashes mark a page break). This takes effect immediately upon using the TNLS Print commands whenever viewspec E is on. See also: pagination, E Viewspec.

Indenting: Printoptions Indenting (per level) CONTENT OK: The Useroptions subsystem command "Printoptions Indenting" allows you to control the indenting of levels of NLS heirarchical structure. CONTENT wants a Number for the spaces each level will be indented from the preceding level. This takes effect immediately. See also: level.

Tab: Printoptions Tab (stop settings) CONTENT OK: The Useroptions subsystem command "Printoptions Tab" allows you to set the column locations where TAB (as a regular invisible character, not a command) will take you. (Warning: the use of TABs often causes trouble when moving from one medium of output to another.) You are not allowed more than 9 tabstops per line. A tabstop cannot be set in column 1. CONTENT wants one of the following forms:

where the number represents the column position (starting from 1 not 0) for the next tab stop,

Problems with tabs in NLS: Tabstops cannot be set for an online file. Instead, the tabstops you set will affect any and all files you read, You can use the Output Printer directive "TABSTOPS" to specify the stops in specific "Output Printed" files, but they will not appear correctly in online or "Output Quickprinted" files unless the reader uses the Useroptions subsystem Printoptions Tab command to set his tabstops to be the same as those set in the TABSTOPS directive. Other problems with the use of tabs in NLS stem from a change in structure, when a statement formatted for one level is moved to a lower level, it is automatically indented 3 spaces. This can cause a tab to be moved past its intended stop and unintentionally go to the next stop (destroying your format). There is no clean way to convert tabs into spaces. A tab located after your last tabstop setting generates an error message. We do not recommend using TABS to format for normal NLS purposes.

16ab8a

privacy: To use TENEX, you must know a (secret) password. (NLS recognizes you by an independent IDENT associated with you as a

P

16ab8

16ab5

16ab6

16ab7

10.00

user.) The right to list, read, and execute the file of another user varies by default among machines where NLS runs; a user may reset privacy for his directory or for one file. In addition to these three functions, you may write on your own files and possibly those of a group of co-workers. With the Set TENEX (protection) command, you may extend or restrict any of these four functions, to yourself, your group, or all users, for your files. Note: The Set TENEX (protection) command in NLS does not work at the present time. With the Set NLS (protection for file) command, you can restrict, to any list of idents, read (and therefore write) access to your files. There is also a Private command in the SENDMAIL subsystem.

Set TENEX (protection ...) command: See set TENEX.16ac1Set NLS (protection ...) command: See set NLS.16ac2SENDMAIL Private command: See private (SENDMAIL).16ac3Showing lists of files: See Show Directory.16ac4write access to files: See write.16ac5executing program files: See running (PROGRAMS).16ac6

Private OK: The Sendmail subsystem command "Private" marks the Sendmail Item to allow only those mentioned in the sendlist to read the item. It automatically places the AccessList IDENTLIST into the header of the Journalized Document. Only those in the AccessList IDENTLIST can Forward the document to others not in the original sendlist. See also: Send;, sendlist, Forward, Sendmail public, Base Private.

problems with using parens (): Since parentheses are legal characters in a filename, placing two links delimited by parens next to each other not separated by a space causes an irresolvable confusion. Also, it is possible for parenthetical clauses in a statement to become confused with links. If you are using the Link entity while editing a link that does not have proper syntax, it is possible to end up editing the parenthetical clause instead. To avoid confusion, we suggest you use angle=brackets <> instead of parentheses in links.

PRDC=REP; An L10 Procedure Replacement program: A filename with this extension points to a compiled L10 procedure whose name is the same as the L10 procedure currently in effect. The Load Program command will place the new procedure in your buffer and replace the old one. See <NLS, sysgd,> for the list of procedures. See also: procedure.

Procedures (routines) you can use to write programs: Procedures are sub=routines which can be "called" by any program to do its thing, See also: Compile Procedure,

Process: NLS provides commands that execute a series of other

16ag

16af

16ad

16ae



Programming for users: See program.

16ak

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P

P

Programs subsystem: user programming software: In addition to the stock capabilities of NLS you may write your own special functions or load a program or subsystem already written and compiled. These programs may serve as complex filters through which you may view a file, or they may actually modify the file. Simple Content patterns 16a1 may be set from the BASE subsystem. See also: Set Content.

commands in the Programs subsystem: Control over user programs is through the Programs subsystem. Programs may be compiled, loaded into the user programs buffer, and used. A complete explanation of the commands accompanies instructions on using L10 to write 16a11 filters and programs in the L10 Users' Guide. Attach Subsystem SUBSYSTEM OK: See Attach (PROGRAMS). 16al1a

16a11b Compile: See Compile (PROGRAMS). Deinstitute PROGTYPE (program) OK: See Deinstitute (PROGRAMS), 16allc 16a11d Delete: See Delete (PROGRAMS). 16al1e Execute (command in) SUBSYSTEM: See Execute. 16al1f Goto SUBSYSTEM OK: See Goto.

Institute PROGTYPE (program) CONTENT OK: See Institute (PROGRAMS).

Jump: See Jump. 16alli Kill TENEX (subsystem) OK: See Kill (PROGRAMS). 16al1j Load Program CONTENT OK: See Load (PROGRAMS). 16al1k OKREPEAT <CIRL=B>: See OKREPEAT.

16al11 Quit: See Quit. 16al1m Reset: See Reset (PROGRAMS). Run Program/TENEX ... : See Run (PROGRAMS). 16a11n 16al10 set: see set (PROGRAMS).

Show Status/TENEX ... : See Show (PROGRAMS). 16al1p 16a11g semicolon: See Semicolon.

16a12 writing programs: See writing. 16a13 compiling user programs: See compiling. loading user program files: See loading, 16a14

16al19

16al1h

16am

16am1

16am2

16an

running programs: See running,	16a15
commands in the Programs subsystem: See commands,	16a16
userprograms library: See userprograms,	16a17

Prompt PMODE OK: PMODE

The Useroptions subsystem command "Prompt" allows you to turn prompts off, to show the basic alternatives in commands, or to show all options as well as alternatives. If you have previously used this command to change your prompting, you may return to partial prompting with this command or with the Reset Prompt command. To see what kind of prompting is currently set, use Useroption's Show Prompt command.

PMODE: Off, Partial, Full: These are the modes you can choose for prompting. Off will suppress prompting completely. Partial is the default and prompts you for all nonoptional alternatives. Full will prompt you for all your choices, including options. See also: optional, alternatives.

See also: prompts, optional, alternatives, Useroptions Reset Prompt, Useroptions Show Prompt,

prompts: symbols printed by the system indicating the command input it expects from you, when partial prompting or full prompting is set on by the Useroptions subsystem, single characters or brief strings followed by colons will appear in the course of NLS commands to show what type of input will work next, (like a commandword or text), "Partial prompting" lists simple choices; "Full prompting" indicates all the alternatives and options you have at each point. Compare Heralds, See also: Prompt (USEROPTIONS).

T/_: is a prompt for the Help command: See help,	16an1
C: is a prompt for Commandword: See commandword,	16an2
A: is a prompt for ADDRESS and, in TNLS, for DESTINATION: See ADDRESS.	16an3
T/[A]: is a prompt for CONTENT in TNLS: See content,	16an4
A/[T]: is a prompt for SOURCE in TNLS: See source.	16an5
B/A: is a prompt for DESTINATION in DNLS: See destination,	16an6
B/T/[A]: is a prompt for CONTENT in DNLS: See content,	16an7
B/A/[T]: is a prompt for SOURCE in DNLS: See source.	16an8
/ means alternative: See alternatives,	16an9
V: is a prompt for VIEWSPECS: See viewspecs.	16an10



Stars: ** prompt for Special alternatives and FILTER See Stars.

Protect: See privacy.

PROTECTION: You can set your TENEX protection with three pairs of numbers. The first two numbers are for you. The second two numbers are for people in your directory group. The last two numbers are for the outside world. The pair 77 means reading, writing, and for programs, execution is allowed. 52 means read and execute, but not write. 00 means don't allow access and in fact, don't even let anyone not connected to your directory see the file exists. You can change your TENEX protection status with the NLS Set TENEX Protection command or the Rename File Command in TENEX. See PRIVACY.

example: 775200 775200 means you can read, write, and execute this file. People in your directory group can read, execute and not write your file. And the outside world can't even see your file exists. 16ap1

Protocol: The rules of interaction between two processes. In computer work, the rules of interaction between two programs. Among

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16a0

16ap

16an19

0 (Ref12345) Author, "Title", DATE, [Cited in 1A2B: (JOURNAL, 12345,)]

users of the ARPA Computer Network, there is a document describing conventions for talking between computers over the Network called the "Protocol Notebook". This is available from the Network Information Center.

Public: The Sendmail subsystem command "Public" makes a Sendmail item marked Private in that session return to being Public.

publish: See hardcopy.

P

Publish: Use the user=subsystem "Publish" to automatically generate a Table of Contents, References in standard formats from Links to Journal items or an Index keyed to statement numbers. You can also count "words". These are the commands available:

Count (visibles in) STRUCTURE (at) DESTINATION OK: The command "Count" in the PUBLISH user-subsystem counts the number of visibles in the STRUCTURE at the DESTINATION you specify.

Filtered alternative: Instead of typing the "OK", you can type an "F" to have the count operate through the FILTER viewspecs you specify.

Count (visibles in) STRUCTURE (at) DESTINATION Filtered: VIEWSPECS OK

See filter.

Generate Table/References ...

Table: Generate Table (of Contents for File at) DESTINATION: (number of levels of depth) CONTENT OK:

The command "Generate Table" in the PUBLISH user-subsystem asks you to specify a file and the number of levels of depth you wish included in the table. The new Table of Contents branch is added as the first level-one branch. The Table of Contents does not cite pages, it cites statement numbers so the body of the formatted version should have statement numbers printed to make the Table useful. You will not want to print the statement numbers for the Table of Contents.

References: Generate References (from Journal links in file at) DESTINATION (using format number) CONTENT OK:

The command "Generate References" in the PUBLISH user-subsystem asks you to specify a file for DESTINATION and the number for the format you wish to use for CONTENT. The file you specify is searched for links to journal items. When one is found, catalog indexes are searched for the reference information. Available formats of references are:

16at2b

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16at2

16ag

16ar

16as

16at

16at1

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16at1a

16at2a

- 1 (12345,) Author, Title, Augmentation Research Center, Stanford Research Institute, Menlo Park, California 94025, DATE.
- 2 (1A2B) Author, Title, Augmentation Research Center, Stanford Research Institute, Menlo Park, California 94025, DATE (JOURNAL, 12345,) 16at2b1
- Index STRUCTURE (at) DESTINATION OK: The command "Index" in the PUBLISH user=Subsystem invokes an experimental program that creates a word index for a statement, branch, group, or plex. It inserts the Index as a branch at the same level at the end of a group or plex, down from a statement, or at the end of the plex down from a branch. It filters with respect to viewspecs. This program is slow, and creates a large index. It will only work on very small chunks of files (100 statements or so). The index may have to be hand edited after creation to shorten it. It excludes all words ending with "ly", all numbers, all words less than or equal to two characters, and all words in a list in the file <programs, publish, a>, Send candidates for the exclusion list to FEEDBACK. See also: filter, structure,



Q

Q

q Viewspec: show one line less: "Show one less line than appeared before," This viewspec will change or modify viewspecs w and s (counting back from the highest number of lines), x and t (you won't see anything), and r (each g cancels out one r).

Q4: Queue four: the postion in the time sharing waiting line in which a job has had its processing suspended. TENEX puts your job on one of four queues (lines) waiting to be done. Some queues have a higher priority than others. If you use up too much clock time while your process is being executed and the load average is high, you get placed in Queue four (Q4) which gets no service until the load average drops.

query: NIC offers a system to search for and recategorize information on certain subjects. A few commands enable you to sift large files on named subjects. The Network Resource Notebook is now available through query.

Questionmark: (?): Typing a question mark at any point in an NLS command, will show you the NLS command alternatives available at that point. After the list has printed you can go on as if you had not typed questionmark. Type <CTRL=0> to stop printing. See also: CTRL=Q.

Quit OK: The command "Quit" allows you to leave the subsystem you are working in and return to one you were last working in. The "Quit OK" command takes you to the subsystems you were just in. If you want to quit back to an even earlier subsystem, use the Quit To SUBSYSTEM command. The subsystem you Quit from is erased from your subsystem stack. See stack.

TNLS example: SEND C: Quit OK:/C: BASE C:

To: Quit To SUBSYSTEM OK: The command "Quit to" returns you to any subsystem you have in your subsystem stack.

TNLS example: PROG C: Guit OK:/C: To C: Base OK: BASE C:

Effects: You will be returned TO the subsystem you name after "To". A subsystem stack lists the subsystems you've been in (See: Stack), If you don't supply a name, you will return to the most recent subsystem in the stack. The subsystem you are quitting from, as well as all of those between it and the one 100

17b

17

17a

17c

17d

17e

17e1

Sec. 18.

17e2a

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you quit TO, will be erased from your subsystem stack. See also: Guit.	17e2b
SUBSYSTEM: See subsystem.	17e2c
NLS: Quit NLS OK: The command "Quit NLS" allows you to leave NLS (all the subsystems) and return to the TENEX Executive. It is slightly slower than typing <ctrl=c> but much safer and we recommend you use this command instead of <ctrl=c>. See also: <ctrl=c>.</ctrl=c></ctrl=c></ctrl=c>	17e3
TNLS example: BASE C: Guit OK:/C: Nls OK: 0	
atsign is the TENEX herald.	17e3a
Effects: Atsign (@) is the TENEX herald, You can reenter NLS with the TENEX command CONTINUE,	17e3b
See also: TENEX, herald.	17e3c
see also: SUBSYSTEMS, herald, Goto, Execute.	17e4



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1

r Viewspec: show one line more: "Show one more line than was previously specified." This viewspec is often combined with x or t; each r in the string adds one more line of each statement. If combined with g, each r cancels out one g.

RADC: Acronym for Rome Air Development Center. A group at Rome began using NLS in 1971.

Random: See Sequential.

R

re-creating the display: After you move to another location in a file, change the type of view or change something in the part of the file(s) you have in view, DNLS has to re-format the file-display area to show the changes in their proper context. If you have viewspec u on, this happens automatically upon execution of every command. Viewspec v suppresses that automatic re-creation, which saves time during some repetitious operations (Warning: you may point to a statement no longer there while viewspec v is on). Independently of either viewspec, re-creation will take place immediately upon specifying viewspec f. See also: F.

Note==Inputting Viewspecs with mouse buttons is not a command: so viewspec u will not affect this; so put in an f at the end of the series of lower=case viewspecs. See also: buttons.

reaching subsystems: NLS has subsystems for specific tasks, such as editing files and sending mail. You are automatically put into the BASE subsystem when you enter NLS. You can also enter subsystems with the Goto command. If you want to give only one command in a subsystem you are not presently in, use the command "Execute" and then give the name of the subsystem you want to use.

Goto command: See Goto.

Execute command: See Execute.

Reading and viewing information: You can read any NLS files whose name you know, except files whose access has been specifically restricted. You call files with the Load File command. After you have loaded it, you can move around within its structure by "pointing" to the specific place you want to go. You can view a file in different ways with viewspecs or you can print it out for reading. See also: pointing, information. For DNLS, See also: viewing. 18e

18

18a

18b

18c

18d

18d1

18e1

18e2

18f

R

accessing files: See accessing.

moving around in files and printing on your terminal in TNLS: The family of Jump and Print commands are used to view information in TNLS. Jump to Address is the basic TNLS pointing command. Other Jump commands point to a character within a statement; some point to files; and some point to statements by their structural position. See also: pointing, file, structural, Jump Address, printing (INLS).

18f3 Hardcopy printing and formatting: See hardcopy. 18f4 Windowing and DNLS viewing: See viewing. 18f5 Sendmail reading: See Print Journal. 18£6 privacy provisions: See privacy. commands for viewing: See viewing=commands. 18£7

Reading your mail: In TNLS, use the Print Journal command. Mail you receive appears in your initial file in the form of citations, New citations are added at the top for quicker viewing of the most recent ones. The message "You Have New Journal Mail" appears when you login if mail has been delivered to you since you last logged in. It is a recommended practice to create a branch in your initial file named, for example, "done" to which journal items can be moved as they have been read. Then the Print Journal command will only get new items. See also: reading. 18g In DNLS: Seeviewing. See also: initial, TNLS, DNLS, sndmsg.

1801 Journal: stored items See Journal. Numbering system: See Numbering. 18g2

recognition:

Command recognition: In specifying a command, you must type certain characters. The system can recognize commandwords after a certain number of letters. There are four modes by which NLS will recognize commandwords: Terse, Fixed, Anticipatory, and Demand. Use the Useroptions subsystem Recognition and Show Recognition commands to change and see your recognition mode. See also: show (USEROPTIONS), recognition (USEROPTIONS).

Fixed Mode: See Fixed,	18h1a
Anticipatory Mode: See Anticipatory.	18h1b
Demand Mode: See Demand,	18h1c
Terse Mode: See Terse,	18h1d

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18f1

18f2

18h

18h1

FILENAME recognition and defaults: In specifying a file, you must give NLS certain information and then it will be able to recognize the file that you want. 18h2 star convention: See star. 18h2a <ESC>: Escape and <CTRL=F> See ESC. 18h2b defaults: See defaults. 18h2c recognition=TENEX: (recognition of commands in TENEX): Commands in TENEX, either the Executive or a subsystem of NLS, are recognized in the Demand mode. See demand. 18h3 Note: If you use <SP> rather than <ALT> to force recognition, the rest of the commandword and following noisewords won't echo. 18h3a Additional shortcut for TENEX commands only: When a TENEX commandword is at the end of the command, or all there is in the command, you may just type enough letters for uniqueness and then a <CR>. You won't get any feedback. 18h3b TENEX has commandwords and noisewords similar to NLS. See notation. 18h3b1 Recognition (mode) RMODE OK: The Useroptions subsystem command "Recognition" allows you to change your recognition mode. Your choices for RMODE are -- Fixed, Anticipatory, Demand, and Terse. With Terse, choose one of the above for the secondary recognition mode. See also: Reset Recognition (USEROPTIONS), Show Recognition (USEROPTIONS). 18h4 RMODE: Recognition and the Recognition Modes: See recognition. 18h4a RMODE = Anticipatory or Demand or Fixed or Terse (secondary mode) RMODE2 RMODE2 = Anticipatory or Demand or Fixed or Terse, 18h4b recording, marking characters. 181 Playback Record (of session from file) CONTENT ... See Playback. 1811 Start Record (of session to file) CONTENT OK: See Start. 1812 Stop Record (of session) OK: See Stop. 18i3 Mark Character (at) DESTINATION (with marker named) CONTENT OK: See Mark. 1814

R

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R .REL; RELocatable L10 program (file): A filename with this extension points to a compiled L10 program that can be placed in your programs buffer with the Load Program command in the Programs subsystem. See 181 also: loading. Release: The DNLS command "Release" thaws statements that were 18k frozen with the "Freeze" command. See also: Freeze. All: Release All (frozen statements) OK: The DNLS command "Release All" thaws all statements that were frozen with the 18k1 "Freeze" command, See also: Freeze. Frozen: Release Frozen (statement at) DESTINATION OK: The DNLS command "Release Frozen" thaws the statement you specify for DESTINATION that was frozen with the "Freeze" command. See also: 18k2 Freeze. 181 remote: printing at a TIP: See Output Remote. Renumber Sids (in file) OK: The command "Renumber Sids" renumbers all the SIDs in the file you're in to be sequential, ignoring the outline structure. SIDs were originally assigned to statements in 18m order of creation. See also: SIDs, structure. TNLS example: BASE C: Renumber C: SIDs in file OK: 18m1 BASE C: 18m2 Effects == no side effects, we hope. 18n repeat: see OKREPEAT. Replace STRING/STRUCTURE (at) DESTINATION (by accumulator) OK: Use the Calculator subsystem command "Replace" to replace a STRING or STRUCTURE (such as a visible or a branch) with the value of the accumulator. See also: DESTINATION, STRUCTURE, STRING, 180 accumulator. Replace: The Base command "Replace" allows you to erase one of the following things at the DESTINATION you specify and put in some other CONTENT you specify. It combines the Insert and Delete 18p commands into one command. STRING: Replace STRING (at) DESTINATION (by) CONTENT OK: This group of "Replace" commands erases an existing STRING and replaces it with another of the same kind that you copy or 18p1 characters that you TYPEIN. TNLS example: BASE C: Replace C: Character (at) A: 7a +e by T:

BASE C:

18p1a

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Effects: CONTENT provides you the choice of pointing (as an option) to a STRING to be copied as a replacement, or of typing one in from the keyboard. After execution you are at the last character of the new STRING. When replacing a link, angle=bracket delimiters will be automatically supplied if you supply no delimiters. 18p1b

Warning when replacing links: See warning.

STRING: Character, Text, Word, Visible, Invisible, Number, or Link: See string. 18pic

STRUCTURE: Replace STRUCTURE (at) DESTINATION (by) CONTENT OK: This group of commands erases an existing STRUCTURE and replaces it with another of the same kind that you copy, or with a something that you type in.

TNLS example: To replace a plex with a single statement: BASE C: Replace C: Plex (at) A: 2a by T: It was all lies, BASE C:

Effects: CONTENT provides you the choice of pointing (as an option) to a STRUCTURE to be copied as a replacement, or of typing a statement in from the keyboard. After execution you are at the first character of the new STRUCTURE. 18p2b

STRUCTURE: Statement, Branch, Plex, or Group: See structure. 18p2c

reporting bugs and making suggestions: In systems and their documentation, a bug is anything that does not work as documented, Report bugs, questions, your difficulties with the system, and suggestions about improvements on the system to the Feedback mechanism located at OFFICE=1: send a message to Ident FEEDBACK with Sendmail, or to username FEEDBACK with Sndmsg. In the same way, you may also ask FEEDBACK about OFFICE=1 or NLS status, current plans, and the decision status of others' suggestions. See also: SNDMSG, IDENT, SENDMAIL.

All messages will normally be answered within one working day, You should receive some response to your messages whether they are immediate problems (such as a bad file), a bug report, a design bug, or a design recommendation. If a problem cannot be fixed immediately, an acknowledgement will be sent indicating a specialist will handle it as soon as software/hardware resources are available, and any further developments reported to the feedback originator. All other inquiries (like suggestions) that need to be studied will also be promptly acknowledged.

Reserve: The Sendmail subsystem command "Reserve" allows you to

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18p1b1

18p2

18p2a



Control character definitions for All terminals back to

GLOSSARY



Effects: If you choose All for TERMINALS, all character sets will return to default definitions, Character sets can be seen with the Useroptions Show Control command, They can be changed with the Useroptions Control command, 18s2a

TERMINALS = Ti (terminal) or Tasker or NVT or Lineprocessor or Imlac or Execuport or 33=TTY or 35=TTY or 37=TTY or All. 1852b

more about TERMINALS: NVT acronym for "Network Virtual Terminal".

Specifying Tasker, Imlac, or Line processor will set up definitions only for the use of DNLS from that terminal. All others set up definitions for TNLS. When you run TNLS from EXEC on one of those display terminals, you'll get the character set for Ti. Going into TNLS via Simulate command gets you the set for the terminal you specify.

Control functions: See CONTROLFUNCTIONS.

See also: terminals, Useroptions Control, Useroptions Show Control.

Currentcontext: Reset Currentcontext (length) DK: The Useroptions' subsystem command "Reset Currentcontext" returns the number of characters that surround the character you are located at (as shown in response to typing a slash) to the default value of 7.

To change the number of characters printed to other than 7: use Useroption's Currentcontext command: See currentcontext (USEROPTIONS).

To see the number of characters presently established: use Useroption's Show Currentcontext command: See Show Currentcontext (USEROPTIONS).

Default: Reset Default (subsystems and programs) OK: The Useroptions' subsystem command "Reset Default" sets the subsystems and userprograms to the system default. There are no default programs. See subsystems. See also: Useroptions Show Default, Useroptions Entry, Useroptions, Incude.

Directive: Reset Directive (filter) DK: The Format user=subsystem command "Reset Directive" sets your current content=analyzer filter to what it was before the Set Directive (filter) command. This only works for one window in DNLS (be careful if you have inserted an edge to split your window).

Feedback: USEROPTIONS Reset Feedback FEEDRESETS OK: The Useroptions' subsystem command "Reset Feedback" allows you to set the feedback Mode back to Verbose==noise words will appear. For your TNLS sessions, you may set the Length of the noisewords you

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18s5

1852C

1852d

18s2e

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18s3a

18s3b



will see back to all characters (up to 50). You can also set the completed commandwords you will see back to all (up to 50). You can also set the number of characters for indenting commands back to zero. 1856 FEEDRESETS: Mode, Length, Indenting. 1856a Mode: Reset Feedback Mode OK: The Useroptions subsystem command "Reset Feedback Mode" sets the feedback you will see for noisewords back to verbose which is the default. 18s6b Length and Indenting affect TNLS only == 18s6c Length: Reset Feedback Length OK: The Useroptions subsystem command "Reset Feedback Length" sets the number of characters you will see for noisewords back to all (up to 50), 1856d Indenting: Reset Feedback Indenting OK: The Useroptions subsystem command "Reset Feedback Indenting" returns commands to the left margin of your TNLS printout. 18s6e See also: command, command recognition, commandword, noiseword, TNLS, pointing, TYPEIN, CONTENT, Useroptions Feedback, Useroptions Show Feedback. 1856f Filereturn: Reset Filereturn (ring entries) OK: The Useroptions" subsystem command "Reset Filereturn" returns the maximum size of your file return ring to 10. The command "Reset Return" returns the statement return ring size to 10. 18s7 Effects: The commands won't take effect until you create a new window in DNLS or until your next NLS session. They will remain in effect for subsequent sessions until you change the size again, like with Useroptions' Jump command. 18s7a See also: statement return, file=return, Useroptions Jump, Useroptions Show Jump. 18s7b Herald: [affects TNLS only] Reset Herald HERALDPARAMS OK: The Useroptions' subsystem command "Reset Herald" allows you to set the herald mode from Terse back to Verbose, or to set the Length of a Verbose herald back to being the first four characters of the subsystem name. See also: herald, subsystem. 18s8 HERALDPARAMS = Mode or Length: Resetting Mode will make a Terse herald (*) Verbose, i.e., the herald will be the first few characters (current Length) of the current subsystem name. Resetting Length will return a Verbose herald to being four characters long. 1858a related commands: The Useroptions subsystem' command "Herald" allows you to change the Length and the mode (Terse or Verbose) of heralds. Use the Useroptions command Show Herald

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subsystem" command "Reset Return" returns the maximum size of your statement return ring to 10. See also: return ring, file-return, Useroptions Return, Useroptions Show Return. Effects: The commands won't take effect until you create a new window in DNLS or until your next NLS session. They will remain in effect for subsequent sessions until you change the size again, like with Useroptions' Jump command. Printoptions: Reset Printoptions PRINTSPECS OK: The Useroptions' subsystem command "Reset Printoptions" allows you to return any of the parameters for TNLS Print commands to defaults. These defaults are: left margin at column 0, right margin at column 72, bottom margin at line 63, page size of 66 lines. Or you can return level indenting to 3 spaces or tabstops to 8,16,24,32,40,48,56,64,72,80,88,96,104. For the meanings and effects of these specifications, See also: command: Useroptions Printoptions. PRINTSPECS: Right (margin) or Left (margin) or Bottom (margin) or Page (size) or Indenting (per level) or Tab (stop settings) See also: the related status command: Useroptions Show Printoptions. Reset Prompt (mode) OK: The Useroptions subsystem" Prompt: command "Reset Prompt" returns the prompting mode to Partial which is the default. The Show Prompt command will indicate your current prompting mode. The Prompt command can be used to change the mode to Off, Partial, or Full. The prompt modes: See pmode. See also: prompts, Useroptions Show Prompt, Useroptions Prompt. Recognition: Reset Recognition (mode) OK: The Useroptions" subsystem command "Reset Recognition" returns the recognition mode to the beginner's default == Terse; secondary mode Terse. You can control recognition mode with the Useroptions' Recognition command. Use the Useroptions' Show Recognition command to learn your current recognition mode.

to see the status of your heralds. See also: Herald

Return: Reset Return (ring entries) OK: The Useroptions

(USEROPTIONS), Show Herald (USEROPTIONS).



Character: Reset Character (size for window) OK: The command "Reset Character" sets your character size back to the default which is number one. Only the window to which your mouse is pointing when you type OK: will be affected. This command will

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not work for terminals that cannot change their character size. 18t3 See also: Set Character. Content: Reset Content (pattern) OK: The command "Reset Content (pattern)" sets aside the content=analyzer you have been using. It is still available to you, but viewspecs i and k will no longer use it to filter statements. The Show Status command in the programs subsystem will show you a list of content-analyzers that are available to you but not in force at the moment. To 18t4 inforce one use the programs subsystem command Institute. TNLS example: BASE C: Reset C: Content (Pattern) OK: 18t4a BASE C: 18t4b content-analyzers: See content-analyzer. Link: Reset Link (default for file) OK: The command "Reset Links" resets the directory for all links in a file that fail to specify a directory to the default. The default is the directory the file itself resides in. This command is used after the Set Link Default command. If at any time you are not sure which is the link default for your file, use the Show File Default 18t5 (directory for links) command. TNLS example: BASE C: Reset C: Link (default for file) OK: 18t5a BASE C: show File Default (directory for links) command: See Show 18t5b File. Name: Reset Name (delimiters) OK: The command "Reset Name" sets the characters that define and mark the boundaries of statement names in a STRUCTURE to your default. See name-delimiters. 18t6 TNLS example: BASE C: Reset C: Name delimiters in C: Branch at A: 2a 18t6a BASE C: See also: Set Name, Show Name. 18t6b Temporary: Reset Temporary (modifications to file) OK: This command does not work. The command "Reset Temporary" erases all the temporary modifications and sets the modification mode back to normal for a given file. You may set the modifications to a file to temporary (with the command Set Temporary modifications)

so that you may edit the file for your own purposes without

having write access. See also: write, Set Temporary.

TNLS example:

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BASE C: Reset C: Temporary (modifications for file) OK: BASE C:	18t7a
TTY: Reset TTY (window) OK: The command "Reset TTY" clears your TTY simulation window and replaces the NLS contents that were in the window before you used the Set TTY, See also: Clear,	18t8
Viewspecs: Reset Viewspecs OK: The command "Reset Viewspecs" sets the viewspecs back to your initial set for NLS sessions,	18t9
TNLS example: BASE C: Reset C: Viewspecs OK: BASE C:	18t9a
Effects: To list the viewspecs currently in force, use the Show Viewspecs status command. One method of changing viewspecs is the Set Viewspecs command. Users can specify their initial set of viewspecs for themselves (the ones you'll go back to when you reset) in the Useroptions subsystems, with that subsystems's Viewspecs command. See also: change, Show Viewspecs (BASE), Set Viewspecs (BASE), Viewspecs	
(USEROPTIONS),	18t9b
Reset: See also: Delete (PROGRAMS).	18u
Buffer: Reset Buffer (size) DK: The Program's subsystem command "Reset Buffer" sets the buffer size back to its default of 4 pages = 2048 words.	18u1
TNLS example:	
PROG C: Reset C: Buifer (Size) PROG C:	18u1a
NDDT: Reset NDDT <ctrl=h> OK: The command "Reset NDDT" will return <ctrl=h> to its oiginal function which is the same as <ctrl=a>,</ctrl=a></ctrl=h></ctrl=h>	18u2
TNLS example:	
PROG C: PROG C:	18u2a
set NDDT command: See set NDDT (PROGRAMS),	18u2b
resetting:	18v
resetting an NLS session: See emergencies.	18v1
The reset command in the BASE and Userontion subsystems: See	



delete modifications command: See Delete Modifications.

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backspacing in commands: See backspacing,	18v4
Sendmail Initialization: See Initialize.	18v5
Useroptions reset: See Reset (USEROPTIONS),	18v6
Programs reset: See Reset (PROGRAMS),	18v7
Calculator clear command: See Clear (CALCULATOR),	18v8
Restricted Distribution: When the ident of a group is used for distribution or for the author of a journal item, you may restrict distribution to the co-ordinator of the group by typing an ampersand(&) before the ident.	18w
Expanded distribution: See expanded (SENDMAIL).	18w1
Return ringone of the following:	18x
return ring for files: an ordered list of the last files you have been in. Additions to the ring are made "on top" of the current position; if you return to a file on the ring, it is added to the top of the list. You are always at the top of the list; additions force the oldest off the bottom after established size is reached. You can control the number of files kept on your ring with commands in Useroptions. Use .fr (jump to file return)	
as an ADDRESS element,	18X1
Jump to File Return command: See Jump File Return.	18x1a
Useroptions subsystem commands for size of ring: See Filereturn (USEROPTIONS).	18×15
See also: Statement Return,	18x1c
Record of statements within a single file: See return.	18x2
Return (ring entries) CONTENT OK: The Useroptions subsystem command "Return" allows you to change the maximum size of your Statement Return Ring. The default is 10. The maximum allowed is 25. CONTENT wants the Number of entries for the ring. Each location remembered on your ring takes up space and too many could slow you down or cause problems. For this reason we	
recommend no more than 10 except for special cases, Effects: The commands won't take effect until you create a new	18×3
window in DNLS or until your next NLS session in TNLS. They will remain in effect for subsequent sessions until you change the size again.	18x3a
See also: Useroptions file, file=return, CONTENT, Useroptions Show Return, Useroptions Reset Return,	18x3b





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18ae2

18ae2a

18ae2a2

18ae2a3

mode) IN (wait for completion?) ANSWER (Go?) DK: The programs subsystem command "Run TENEX" allows you to operate the TENEX subsystem you specify for CONTENT while you continue working in NLS.

OUT = File CONTENT !or! Teletype OK:

If you specify "Teletype" for the output, the process will appear on your terminal. Otherwise, if you specify "File" the process will be remembered in the sequential file with the name you specify for CONTENT. IN =

- From (file) CONTENT OK: This commandword allows you to specify a sequential file containing a stream of characters which will be interpreted in the TENEX subsystem you specify. 18ae2a1
- No (input) DK: This commandword is for subsystems that do not need any user input other than calling the subsystem name.
- Typeahead CONTENT OK: This commandword allows you to specify a stream of characters to be interpreted by the TENEX subsystem. Enter CA and CD by preceeding them with <CTRL=V>.
- Interactive (termination character) CONTENT OK: This commandword allows you to specify the necessary input characters as you go along. When you get to the point where you wish to leave the TENEX subsystem you type the "termination character" you specify here, <CTRL=Y> is a good one to use. If you say "No" to "Wait for completion?", the TENEX subsystem will continue until it is finished while you do other things in NLS. You can abort the subsystem by using Programs subsystem's Kill TENEX (subsystems) command. 18ae2a4

Use programs' Kill TENEX (subsystem) command to terminate the process. Use programs' Show TENEX command to see the current status of your TENEX subsystem. See also: TENEX, Kill TENEX (PROGRAMS), Show TENEX (PROGRAMS), sequential, 18ae2a5

TENEX: Run TENEX (subsystem) CONTENT DK: (output to) OUT (input mode) IN (wait for completion?) ANSWER (Go?) OK: The programs subsystem command "Run TENEX" allows you to operate the TENEX subsystem you specify for CONTENT while you continue working in NLS.

Runable Programs: See REL files:

running programs: The Programs subsystem command Run Program will pass control to the program. In such cases, the program file will

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have the extension "REL". For programs with other extensions: See loading user programs files, 18ag

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s Viewspec: show all lines: "Show all lines of each statement." This viewspec is normally on, but if you were previously looking at one line only and you wanted to see all lines, you'd set viewspec s. It releases any previous line=cutting viewspecs but, unlike w, does not show more levels.	19a
screen: See display,	19b
Search = one of the following:	19c
for character with ADDRESS: See characteraddress,	1901
for word with ADDRESS: See word-search.	1902
pointing in general: See pointing,	19c3
for content with ADDRESSusually within one statement or branch: See contentaddress.	19c4
for content with viewspecs==usually over a whole file: See content=pattern,	19c5
for statementname with ADDRESS: There are four basic ways of searching for statement names. These can be talked about with the Jump command. Jump (to) Name Any takes you to a name the fastest way possible. If you have not changed the position of your named statements since the last time you did an Update File Compact, this will also equal a Jump (to) Name First. Jump (to) Name First and Next are slower. See also: statementname, nextname, branchname, externalname,	19c6
The Jump (to) Name commands: See Jump Name.	19c6a
secondary:	19d
recognition mode: See terse,	19d1
distribution changed to "Forward" in Sendmail Subsystem: See forward (SENDMAIL),	19d2
seeing: See reading.	19e
semicolon:	19£
semicolon: ; TYPEIN OK: Typing the semicolon character (;) at	

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the herald allows you to enter a comment not taken as command input.	19f1
TNLS example: BASE C: ; This next series of commands shows how to BASE C:	19f1a
Effects: Anything you type after the semicolon and before the OK will be printed at your terminal but not processed in any other way by NLS. People often use ; after the Connect TTY command, which "links" two terminals. You can then have comments you type be printed at both terminals without	10611
affecting either job.	19110
See also: terminals, Connect TTY,	19f1c
<pre>the semicolon as a viewspec: set off content-analyzer patterns in links: When the viewspec field of links contains a content-analyzer pattern, the pattern is placed between semi=colons among the other viewspecs. For example:</pre>	1942
by a colon, see: pattern,	1710
Send (the mail) OK: The Sendmail subsystem command "Send" sets in motion the Sendmail process after you have specified correctly a source and any other information you wish. (If you put impossible things in some fields, it won't work.)	19g
types of sources: See item (SENDMAIL).	19g1
Sending mail: Use the Sendmail Interrogate command to be prompted for the basic elements of a sendmail item, You will be asked for a distribution list made up of IDENTS,	19h
Interrogate command: See Interrogate (SENDMAIL).	19h1
Sources for sendmail items: see item (SENDMAIL).	19h2
error messages in the Sendmail subsystem: See Initialize,	19h3
identification and mailing lists: See identification,	19h4
commands in the Sendmail subsystem; See commands,	19h5
sendlist: See identlist.	191
Conducil subsustems. The Conducil subsustem allows you to cond	
ADAMALI CUDEVETRUE TOP SADAMALI CUDEVETAM ALLAWS VALLED CADA	

Sendmail subsystem: The Sendmail subsystem allows you to send messages and documents to a list of people known to NLS and have these messages cataloged and stored in the NLS Journal. The

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ec ni	ipients may receive hardcopy, or notice of the item in their tial file, or the item itself if it is short.	195
с	ommands in the Sendmail subsystem:	19j1
	Authors CONTENT OK: See Authors (SENDMAIL).	19j1a
	Branch (at) SOURCE OK: See Branch (SENDMAIL).	19j1b
	Comment CONTENT OK: See Comment (SENDMAIL).	19j1c
	Distribute (for) CATEGORY (to) CONTENT OK: See Distribute (SENDMAIL).	19j1d
	Execute (command in) SUBSYSTEM: See Execute.	19j1e
	Expedite OK: See Expedite (SENDMAIL).	19j1£
	FILE DESTINATION OK: See File (SENDMAIL).	19j1g
	Forward (item number) CONTENT (for) ACT/INFO (only) See Forward (SENDMAIL).	19j1h
	Goto SUBSYSTEM OK: See Goto,	19j1i
	Group (from) SOURCE OK: See Group (SENDMAIL).	19j1j
	Offline (item == located at) CONTENT OK: see Offline (SENDMAIL).	19j1k
	OKREPEAT <ctrl=b>: See OKREPEAT.</ctrl=b>	19j11
	Initialize (specifications) OK: See Initialize (SENDMAIL),	19j1m
	Insert: See Insert (SENDMAIL).	19j1n
	Interrogate OK: See Interrogate (SENDMAIL),	19j10
	Keywords CONTENT OK: see Keywords (SENDMAIL).	19j1p
	Message CONTENT OK: See Message (SENDMAIL).	19j1q
	Number Assign/Previously: See Number (SENDMAIL).	19j1r
	Obsoletes (item number(s)) CONTENT OK: See Obsoletes (SENDMAIL).	19j1s
	Plex (at) SOURCE OK: see Plex (SENDMAIL).	19j1t
	Private CK: See Private (SENDMAIL),	19j1u
	Process (sendmail form at) DESTINATION OK: See Process (SENDMAIL),	19j1v
	Public: See Public (SENDMAIL).	19j1w

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Quit OK: See Quit. 19j1x RFC (number) CONTENT OK: See RFC (SENDMAIL). 1911y Reserve: See Reserve (SENDMAIL). 19j1z Send (the mail) OK: See Send (SENDMAIL). 19j1a0 Show Status/Record: See Show (SENDMAIL). 19j1aa Statement (at) CONTENT OK: See Statement (SENDMAIL). 1911ab Subcollections CONTENT OK: See Subcollections (SENDMAIL). 19j1ac Title CONTENT OK: See Title (SENDMAIL). 19j1ad Unrecorded ANSWER: See Unrecorded (SENDMAIL). 1911ae Update (to item number(s)) CONTENT DK: See Update (SENDMAIL), 19j1af Reading your mail: See Reading. 1912

Sending mail: See Sending, Insert Sendmail form,

sendmessage: See sndmsg.

Sequence Generators: determine the way in which the statements in a file are arranged into a structure before display. The usual order is the outline structure you see when the file is printed while viewspec P, the default, is on. Users may create others. Use viewspec capital=0 and capital=P to turn on and off a user sequence generator. A sequence generator observes filter viewspecs, i.e., content=analysis and level clipping, in determining which statements to pass on to the formatter. Sequence Generator programs are complex and generally limited to experienced L10 programmers. None are currently supported as user=programs. COMPARE: sequential.

sequential: With regard to computer files that contain text, a sequential file stores its characters in a single sequence like beads on a string. NLS files are not sequential files, but rather have statements stored in a random order with a system of pointers to retrieve them as needed. You can turn a sequential file into an NLS file using the Copy Sequential command and you can turn an NLS file into a sequential file using the Output Sequential command or the File alternative in the Output Quickprint or Output Printer commands, Sequential files generated from NLS files often have the extensions .TXT or .Print, See also: extension, TENEX, PRINTER.

Copy Sequential command: See Copy Sequential, 19m1 Output Sequential file command: See Output Sequential, 19m2

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Server computer: A computer providing service to users via the ARPANET, Sometimes called a "Host", See NIC,	19n
Set:	190
Buffer: Set Buffer (size to) CONTENT DK: The Program's subsystem command "Set Buffer" allows you to specify the number of pages reserved for user-program code,	1901
buffers: See buffers,	1901a
TNLS example: PROG C: Set C: Buffer (size to) T: 8 pages = 4096 words PROG C:	1901b
NDDT: Set NDDT <ctrl=h> OK: The command "Set NDDT" allows you to go to NLS=DDT when you type a <ctrl=h>.</ctrl=h></ctrl=h>	1902
TNLS example: PROG C: Set C: NDDT (control=h) PROG C:	1902a
NLS=DDT: See NLS=DDT.	1902b
reset NDDT control=h command: See reset NDDT (PROGRAMS),	1902c
Set: The command "Set" allows you to change any one of the following things that you specify. Use the Reset commandverb to get back to the original default setting, See also: SET (PROGRAMS), RESET,	19p
Archive: Use the BASE subsystem's Archive command: See archive,	19p1
Character: Set Character (size for window to) CONTENT OK: The command "Set Character" allows you to change the size of your characters to one of the numbers (shown below) you specify for CONTENT. Character size 1 is the default. Only the window to which your mouse is pointing when you type OK: will be affected. This command will not work for terminals that cannot change their character size. See also: Reset Character.	1902
0 The smallest	19p2a
1 The average size (72 characters per line) the default.	19p2b
2 The large size.	19p2c
3 The largest size.	19p2d
Content: Set Content (pattern) Off/On/To	19p3
Off: Set Content (pattern) Off OK: The command "Set Content (pattern) Off" de-activates your content-analysis pattern by	

turning viewspec j on. All statements will pass. Viewspec i or the command "Set Content (pattern) On" activates your 19p3a content=analysis pattern. 19p3a1 viewspec j: See j. 19p3a2 content=analyzers: See content=analyzer. Set Content (pattern) On (Base command): See Set Content 19p3a3 (BASE). On: Set Content (pattern) On OK: The command "Set Content (pattern) On" activates your current content-analysis pattern by turning viewspec i on. Only statements that contain the current pattern will pass. Viewspec j or the BASE subsystem command "Set Content (pattern) Off" de-activates your 19p3b content=analysis pattern. 19p3b1 viewspec i: See i, 19p3b2 content=analyzers: See content=analyzers. 19p3b3 Reset Content (pattern): See Reset Content.

To: Set Content (pattern) To CONTENT OK: The command "Set Content (pattern) To" allows you to type in or point to a content-analyzer pattern. It then compiles the pattern and makes it your current content-analyzer. After you specify the content-analyzer pattern, you may turn it off and on by the viewspecs i, j, and k. When pointing to a pattern instead of typing it in, you must point to the first character of the entire pattern which must end with semicolon. Content-analyzer programs already compiled into a program file, can be loaded with the Programs subsystem command "Load Program".

content=analysis viewspecs: See content=analysis. 19p3c1

The Programs subsystem Load Program command: See load (PROGRAMS). 19p3c2

Directive: Set Directive (Filter) OK: The Format user=subsystem command "Set Directive" sets your current content=analyzer filter to one which only shows statements with Output Processor directives in them, You may then use viewspec i to turn the filter on, and viewspec j to turn it off (show everything),



Delimiters alternative: If directives in the file you are working on use delimiters other than period and semicolon (because you changed the delimiters in a preceeding statement), you must use the command:

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Set Directive (Filter) Delimiters (Left) CONTENT (Right) CONTENT OK: Typein or point to the left and right directive delimiter characters which you wish the program to use. Each new view of the file (a Jump or Print) through this filter begins with the assumption that the directive delimiters are these new characters. Changes in the delimiters by subsequent directives in the view will not keep them from being viewed. 19p4a External: Set External (names link file to:) CONTENT OK: To use this command, you must have a file that contains statement names followed by links. Specify this file's name for CONTENT. See also: Jump Name, EXTERNALNAME. 1905 Link: Set Link (default for file to directory) CONTENT OK: The command "Set Link" allows you to change the operation of links in a specific file so they work as if the named directory were in the link. Then, when you do not specify a directory name for links in that file, the one you have chosen will be assumed. You can go back to the default set by the system prior to this command == the directory the file itself resides in == by using the 19p6 Reset Link default command. See also: defaults. TNLS example: BASE C: Set C: Link (default for file to directory) T: alice BASE C: 19p6a Reset Link (default) command: See Reset Link. 19p6b Show File Default (directory for link) command: See Show File Default (BASE). 19p6c Name: Set Name (delimiters in) STRUCTURE (at) DESTINATION: (left delimiter) CONTENT (right delimiter) CONTENT OK: The command "Set Name" allows you to change the characters which define and mark the boundaries of statement names in a particular STRUCTURE at the DESTINATION you specify. Typein or point to one character as the CONTENT for both the left and right delimiters. It will only take effect on those statements passing the current viewspecs. See also: statementname, STRUCTURE, Reset Name, Show Name. 1907 TNLS example: BASE C: Set C: Name (delimiters in) C: Branch at A: 2a left delimiter T: right delimiter T: : BASE C: 19p7a Effects: See name=delimiters. 19p7b

Set NLS (protection for file) Private/Public OK:



NLS:

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19p8

Private: Set NLS (protection for file) Private OK: The command "Set NLS (protection for file) Private" allows you to limit access to the file in which you are currently located. Only those people with their IDENTS listed in the origin statement of the file in exactly the following syntax: AccessList: IDENTLIST; will be allowed to see the file. The word AccessList must be followed by a colon (:) and a space before you list the IDENTS. The list of IDENTS must be all capitals, separated by commas, and with a semi-colon (;) at the end. After inserting the AccessList, and setting the protection to private, you must update the file before the protection will work. If you do not put the AccessList outside the delimiters of the origin statement, it will disappear when you update. NOTE, if you make a mistake, you can easily deny access to yourself. If this occurs, one of your computer's operators should be able to bail you out. See also: statement, Set NLS Public, Show File Status.

Effects: A NULL AccessList (i.e., one which is specified but has no idents in it) is very different from a nonexistent AccessList. The former grants access to no one; the latter effectively grants access to everyone. An unauthorized user's attempt to load a private file is declined by NLS with the message: "Private file: access denied to you." Once a file has been Set Private, it remains private until it is specifically set Public. When a new file is created, it is Public.

Public: Set NLS (protection for file) Public OK: The command "Set NLS (protection for file) Public" makes the file in which you are presently located open to anyone. Set NLS Public undoes what the Set NLS Private command does but is independent of the Set TENEX (protection) command.

Temporary: Set Temporary (modifications to file) OK: (really?) OK:

The command "Set Temporary" allows yout to edit a file for your own purposes without having write access (e.g. journal files), Reset Temporary modifications erases all the temporary modifications and sets the modification mode back to normal for the given file,

TNLS example: BASE C: Set C: Temporary (modifications for file) OK: BASE C:

DANGER: The command "Reset Temporary" does not work at all, Be sure you understand the "Set Temporary" command before you use it, 19p9b

write access: See write.

modifications: See modifications.

19p8a

19p8a1

19p9a

19p9c

19p9d

1909

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19p9e

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TENEX: Set TENEX (protection for file named) CONTENT CONTROLS OK: 19p10 TTY: Set TTY (simulation for window) BUG OK: The command "Set TTY" allows you to BUG the DNLS window you wish to have simulate a teletype. You will want to use the Insert Edge command first to create a special window. See also: TTY=simulation. 19p11 Viewspecs: Set Viewspecs VIEWSPECS OK: The command "Set Viewspecs" allows you to change the viewspecs at any time for the current NLS session. 19p12 TNLS example: BASE C: Set C: Viewspecs V: dmIGY BASE C: 19p12a

Reset Temporary (modifications for file) command: See Reset

Effects and related commands: To list the viewspecs currently in force for this session, use the Show Viewspecs command. After this NLS session, your viewspecs will revert to a default initial set which you can select for yourself in the Useroptions subsystem, with the Viewspecs and Reset Viewspecs commands. To check what initial set is established, use Useroptions' Show Viewspecs command. Base's Reset Viewspecs command will return current viewspecs to that same initial set immediately. See also: Reset Viewspecs (BASE), Show Viewspecs (BASE), Viewspecs (USEROPTIONS), Reset Viewspecs (USEROPTIONS), Show Viewspecs (USEROPTIONS). 19p12b

SG; Sequence Generator program: filename with this extension points to a compiled L10 Sequence Generator. The Load Program command in the Programs subsystem will place the Sequence Generator in your buffer and automatically institute it as your current Sequence Generator replacing any other Sequence Generator that might be there.

Sequence Generators: See sequence,

shared screens: See connect display,

Temporary.

Show: The command "Show" does different things and has different alternative operands in different subsystems. See also: verb, operand, SUBSYSTEM.

Base Show: See Show (BASE).19s1Sendmail show: See Show (SENDMAIL).19s2Useroptions Show: See Show (USEROPTIONS).19s3

19q

19q1

19r

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&SRI=ARC 21=NOV=75 19:38 22132 Programs Show Status: See Show (PROGRAMS). 1954 Sendmail Show Record (for) IDENT OK: See Show Record (SENDMAIL). 1955 Calculator Show: See Show (CALCULATOR). 1956 Show: see the status of special things: The command "Show" allows you to see the status of any one of the following things that you specify. See also: reading, viewing. 19t Directory: Show Directory (of) DEFAULT [DIROPT] OK: DEFAULT = OK Ito specify the directory to which you are connected! !or! CONTENT !accepts any FILEADDRESS! The command "Show Directory" will display a list of files in link syntax according to options you can specify with commandwords in DIROPT after you type <CTRL=U>. You can insert the list into a file with the Copy Directory command. If the file is being modified, it will state this in square brackets following the link syntax for that file. See also: directory, option, commandword, link. 19t1 DIROPT: See DIROPT. 19t1a Copy Directory command: See Copy Directory. 19t1b TNLS example: BASE C: Show C: Directory T: Kabinett,*.NLS;* OPT:/OK: OK: 19t1c Effects: Altmode works when specifying a FILEADDRESS. If the FILENAME is not specified, all files in the directory to which you are connected (the one you logged in under or subsequently Connected to) will be printed. 19t1d filename and star convention: See star. 19t1d1 Connect to Directory command: See Connect Directory, 19t1d2

Disk: Show Disk (space status) OK: The command "Show Disk (space status)" will print the number of disk pages in use for deleted and undeleted files, and the maximum number of disk pages allowed for your directory. It also shows how many pages are in use by the whole system, and how many are left.

deleted files: See deleted

<KABINETT>

XXX, NLS;9

BASE C:

TNLS example: BASE C: Show C: Disk (space status) OK: Connected to WEINBERG

19t2

19t2a

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19t2b

19t3

19t3a

19t4

19t4a

19t4a1

19t4b1

93 Total pages in use -- 300 Allowed, 93 Undeleted, 0 Deleted System Total: 3246 Pages left, 55604 Used BASE C:

Return: Show Return (ring) OK: The command "Show Return (ring)" will show the beginnings of the last few statements where you have been. The most recent statements you visit are added in turn to the top of the list. To change the size of your return ring (from the default 10 to up to 25) use Useroptions Return command. See also: return.

TNLS example: BASE C: Show C: Return (ring) OK: so we left for the mountain and so on an extraxterrestria buffalo consider. BASE C:

File:

Default: Show File Default (directory for links) OK: The command "Show File Default" will print the link default directory for the file you are in. This command has no effect on the file. The link default directory may be changed with the Set Link command.

TNLS example: BASE C: Show C: File C: Default (directory for links) OK: Private File (but with no Access List) < WEINBERG, RE,NLS;16, > Default directory for links is WEINBERG BASE C:

Modification: Show File Modification (status) OK: The command "Show File Modification" will print the modification status of the loaded file. The first creation or change of text begins a set of modifications and changes the modification status to modified. Normally, only one person can be modifying a file at any time. The file modification status remains "modified" until you incorporate your changes into the file with a Update command. See also: modifications, Update. 19t4b

TNLS example: BASE C: Show C: File C: Modifications (status) DK: < WEINBERG, RE.NLS:17, > Being Modified By WEINBERG (POOH) BASE C:

Return: Show File Return (ring) OK: The command "Show File Return" will show your file return ring. The most recent

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19t4c

19t4d

19t4d1

files you've worked in (in this NLS session) have been added in turn to the top of the list; the file you're in is at the top. To change the size of your return ring (from the default 10 to up to 25) use Useroptions' Filereturn command, See also: Jump File Return,

TNLS example: BASE C: Show C: File C: Return (ring) OK: < WEINBERG, RE.NLS;17, > Being Modified By WEINBERG (POOH) < WEINBERG, POOH.NLS;61, > Being Modified By WEINBERG (POOH) BASE C: 19t4c1

Size: Show File Size OK: The command "Show File Size" will print information about the size of the file in which you are located. It refers to TENEX pages which are roughly equivalent to typed pages.

TNLS example: BASF C: Show C: File C: Size OK: <DOE>WONDER,NLS;34 31 statements in file Structure pages = 1/95 Data pages = 1/370 Total pages in file = 8 1402 words used out of 2048 words in file (=68%) BASE C:

Status: Show File Status OK: The command "Show File Status"
will print certain basic information about the loaded file,
including: link default directory, modification status, date
of creation, and file size. This command has no effect on the
file. See also: loading, modifications. 19t4e

TNLS Example: BASE C: Show C: File C: Status OK: < WEINBERG,RE,NLS;16, > being Modified By WEINBERG (POOH) Private File (but with no Access List) Default directory for links is WEINBERG Creation date of version 1: 14-JAN-75 08:03 Creation date of this version: 6=FEB=75 15:14 26 statements in file Structure pages = 1/95 Data pages = 6/370 Total pages in file = 8 1101 words used out of 4096 words in file (=27%) Try an Update File Compact to improve % used.

19t4e1

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Marker: Show Marker (list) OK: The command "Show Marker" will list the markers, with their addresses, of the loaded file.

Effects: Markers are normally invisible when viewing your

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file. Markers are named with the Mark Character command, and deleted with the Delete Marker or Delete All markers commands. 19t5a pointing with a marker: You can point to a marked character by using the marker name in an ADDRESS expression. You can also point there in DNLS by holding down the right=most button on the mouse and typing in the marker. See also: buttons, down. 19t5b See also: markers, Mark, Delete Marker, Delete All. 19t5c Name: Show Name (delimiters for statement at) DESTINATION OK: The command "Show Name" will print the characters currently defined (by the Set and Reset Name delimiters commands or by your useroptions default) to mark off statementnames for the statement you specify. 19t6 TNLS example: BASE C: Show C: Name (delimiters for statement at) A: 1 NULL NULL BASE C: 19t6a See also: statementname, name=delimiters. 19t6b Viewspecs: Show Viewspecs (status) [Verbose] OK: The command "Show Viewspecs" will (in the terse form) simply list the viewspecs in force in the current NLS session. In the verbose form, it will list the viewspecs with their meanings. 19t7 TNLS example: BASE C: Show C: Viewspecs (status) OK/[**]: levels: ALL, lines: ALL, hjnpuzACEGJLP BASE C: 19t7a Effects: For verbose, type the OPTION character and then specify the commandword Verbose before confirming the command. The Set and Reset Viewspecs commands are used to change viewspecs. See also: change, Set Viewspecs (BASE), Reset Viewspecs (BASE). 19t7b Show Status/Record. 19t8 Record: show Record (for ident) CONTENT OK: The sendmail subsystem command "Show Record" takes an IDENT and ident-search-codes for CONTENT and then displays current information in the Identfile about that person. 19t8a IDENT: See ident. 19t8a1 Status: Show Status OK: The Sendmail subsystem command "Show Status" displays to you what it knows about the current journal item to be sent. It shows the fields along with their

current values. Empty fields are omitted. You may replace or add to the items in this list with the appropriate command. You may also use the Insert Status (form) command to place the status as a statement in a file where you may then modify or add to fields that can then all be processed at once with the Process (sendmail form) command. 19t8b

The Insert Status (form) command: See Insert Status (SENDMAIL). 19t8b1

The Process (sendmail form) command: See Process (SENDMAIL).

Show:

All: The Useroptions subsystem command "Show All" lists all your useroptions settings.

Control: Show Control (characters for terminal) TERMINALS OK: The Useroptions subsystem command "Show Control" prints a list of the control-characters or special characters assigned to certain Command Control Functions for a given brand of terminal, and the echo they feed back.

TNLS example
USER C: Show C: Control (characters for terminal) C: Ti
(Terminal) OK:
Control Characters: Standard Definitions (non-alterable)
CA:<^D>, CD:<^X>, RPT:<^B>, INSERT:<^E>, BC:<^A>, BW:<^W>,
BS:<^Q>, LITESC:<^V>, IGNORE:<^S>, SC:<^S>, SW:<^S>, TAB:<^I>
Control Characters: User Definitions (alterable)
TI/EXECUPORT :[<EOL>,<NUL>]
USER C:

Effects: If you specify a particular device for TERMINALS, you will get a list of definitions for the functions you have changed for that terminal only. If you specify "All" for TERMINALS, you will get a list of the standard control function definitions users can't alter and a list of the alterable definitions currently in effect for all terminals using TNLS or DNLS, whichever you're in. Within the squarebrackets, the second character in anglebrackets refers to the echo, the character that prints when the function is used. The Control command and the Reset Control command change alterable control function assignments.

TERMINALS = Ti (terminal) or Tasker or NVT or Lineprocessor or Imlac or Execuport or 33=TTY or 35=TTY or 37=TTY or All.

NVT means "Netword Virtual Terminal", Specifying Tasker, Imlac, or Line processor will set up definitions only for the use of DNLS from that terminal, All others set up definitions for TNLS. If you type TNLS from

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TENEX on one of those display terminals, you'll get the character set for Ti. Going into TNLS via the NLS Simulate 19u2d command gets you the set for the terminal you specify. CONTROLFUNCTIONS: Command Control Functions: = Command Accept (See also: CA) Ca = Command Delete (See also: CD) Cd = OKREPEAT (See also: OKREPEAT) Rpt Insert = OKINSERT (See also: OKINSERT) = Backspace Character (See also: Backspace) BC = Backspace Word (See also: Backspace) BW = Backspace Statement -- erases whole TYPEIN field BS Litesc = Literal Escape means: "Take the character which follows as literal text instead of its special function." Ignore = NLS will always ignore the character defined for Ignore, as if it had never been typed Sc = Shift Character (for an upper=case=only terminal being used for upper/lower case) = Shift Word (for an upper-case=only terminal SW being used for upper/lower case) 19u2e = (See also: TAB) Tab See also: control=characters, 19u2f Useroptions Reset Control, Useroptions Control. Currentcontext: Show Currentcontext OK: The Useroptions subsystem command "Show Currentcontext" shows how many characters will surround the character you are located at in 19u3 response to typing a Slash. See also: ADDRESS. TNLS example: USER C: Show C: Currentcontext OK: 19u3a length: 0. Effects of other commands: If the number has not been changed with the Currentcontext command, it will remain at 7, the default. If you do use the Currentcontext command to change the currentcontext length, you can return to 7 characters with the Reset Currentcontext command, See also: Currentcontext 19u3b (USEROPTIONS), Reset Currentcontext (USEROPTIONS), Slash: See slash. 19u3c Default: Show Default (subsystems and programs) OK: The Useroptions subsystem command "Show pefault" shows the list of subsystems that is automatically loaded and the one you will be placed in when you enter NLS. You can add to this list using Useroptions Include command, Subtract from the list by using



Useroptions Exclude, Specify the entry subsystem with Useroptions Entry command, See also: Include (USEROPTIONS), Exclude (USEROPTIONS), Entry (USEROPTIONS), SUBSYSTEM, Programs, 1904

GLOSSARY

TNLS example: USER C: Show C: Default (Subsytems and Programs) OK: Universal Subsystem: SUPERVISOR Entry subsystems: BASE Other Subsystems and User Programs: USEROPTIONS SENDMAIL PROGRAMS USER C:

Feedback: Show Feedback OK: The Useroptions subsystem command "Show Feedback" shows whether your feedback mode is Verbose (noisewords appear in the feedback of commands) or Terse (noisewords will be shut off) and shows the current values for Length and Indenting.

TNLS example: USER C: Show C: Feedback OK: mode: VERBOSE, length: 50 indenting: 0 USER C:

Effects of other commands: If the mode has not been set to Terse with the Feedback command or if it has been reset with Reset Feedback Mode, it will be Verbose. Indenting has to do with where commands appear on TNLS paper, not with levels. 1905b

See also: command, commandword, noiseword, TNLS, Useroptions Feedback, Useroptions Reset Feedback,

Herald: Show Herald OK: The Useroptions subsystem command "Show Herald" shows you the herald mode and length currently set for your TNLS use. You can learn this in DNLS too, although heralds only appear in TNLS.

What you'll see and what it'll mean to you in TNLS: Terse mode means that a star * will print at the left margin for each command as your herald in every subsystem. Verbose mode means that part of the name of your current subsystem will print as your herald. The number of characters of the subsystem name that will print is shown as "length" (i.e., "mode: VERBOSE length: 3" means that your herald for programs will be PRO, for Base, it'll be BAS, etc.).

related commands: To change your heralds for TNLS, use the Useroptions Herald command. To return to the defaults, mode: VERBOSE length: 4, use Reset Herald. See also: Herald (USEROPTIONS), Reset Herald (USEROPTIONS).

Name: USEROPTIONS Show Name (delimiter defaults) OK: The Useroptions subsystem command "Show Name" will display your default statementname delimiters, See name (USEROPTIONS), statementname,

TNLS example: USER C: Show C: Name (delimiter defaults) OK:

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19u6a

19u6b

19u4a

19u5

1905a

19u5c

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NULL NULL USER C:

Return: Show Return (ring sizes) DK: The Useroptions subsystem command "Show Return" shows you the maximum size of your Statement Return Stack (shown as "return"), and your File Return Stack (shown as "filereturn") which is going to take effect the next time you create a new window in DNLS or the next time you enter NLS. It will also be the current maximum size of the ring if you haven't changed it this session. You can change your return ring sizes with the following commands: Useroptions Return, Useroptions Filereturn, Useroptions Reset Return.

TNLS example: USER C: Show C: Return (ring sizes) OK: return: 10 filereturn: 10 USER C:

Printoptions: Show Printoptions OK: The Useroptions subsystem command "Show Printoptions" will show the present values for the four parameters for TNLS Print commands used with viewspec E, the tabstops, and the number of spaces set for level indenting, For the meanings and effects of these specifications, See also: command: Useroptions Printoptions,

TNLS example: USER C: Show C: Printoptions OK: Margins left: 0 right: 72 bottom: 63 page size: 66 indenting per level: 3 tabstops: 8,16,24,32,40,48,56,64,72,80,88,96,104 USER C:

Prompt: Show Prompt OK: The Useroptions subsystem command "Show Prompt" shows your current mode for prompts, 19u10

TNLS example: USER C: Show C: Prompt OK: mode: FULL USER C:

What the prompting modes mean: See pmode.

related commands: The Prompt command sets the mode to Off or Partial or Full. The Reset Prompt command returns the prompting mode to Partial, the default. See also: Reset Prompt (USEROPTIONS), Prompt (USEROPTIONS). 19u10c

Recognition: Show Recognition OK: The Useroptions subsystem command "Show Recognition" shows your current commandword recognition mode: Fixed, Demand, Anticipatory, or Terse. If it is Terse, you will also see the secondary recognition mode. 19u11

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19u7a

19u8

19u8a

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19u9a

19u10a

19u10b

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TENEX: Show TENEX (subsystem status) OK: The Program's subsystem

command "Show TENEX" will tell you if you have any TENEX subsystems running. See TENEX,	19v2
Show:	19w
Accumulator: Show Accumulator (Registers) OK: See also: accumulator.	19w1
File (DNLS only): Show File (in window) DESTINATION OK: See also: file (CALCULATOR),	19w2
showing: see also: show: See reading,	19x
SID: Statement IDentifier: 012 (no preceding character): unique numbers that are assigned by the system to statements in a file in the order in which they are created. A SID is a number always beginning with a zero (0). It remains with its corresponding statement for the life of the statement (despite editing changes), You can, however, renumber a file's SIDs consecutively with the Renumber command (See also: Renumber). Every statement is also separately numbered according to its position in the file hierarchy (See also: statementnumber), Use viewspecs capital=I and m to turn on SIDs. You may also name statements (See also: statementname), Such identifiers of statements automatically refer to its first character when used in an ADDRESS, See also: ADDRESS, capital=I, M,	19y
signatures: statement signatures: See Capital=K.	19z
Simple Startup: The instructions for simple startup assume the Lineprocessor is either wired or connected by a modem without acoustic coupler to a TIP. If these assumptions are false for your workstation, you need to study the Lineprocesor User's Guide.	19a@
STEP=1 Turn on the display with its ON=OFF switch.	19a@1
STEP-2 Turn the display to "online" or "receive" mode if this does not happen automatically. Make sure the terminal is in full duplex mode.	19a@2
STEP=3 On the Lineprocessor, make sure all the sense switches (the slim silver toggles on the upper right) are down,	19a@3

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STEP=4 If the telephone modem is not on, turn it on.

STEP=5 Turn on the Lineprocessor with the ON=OFF button toward the lower right and press the System Reset button.

Note: At this point the display cursor (on most displays a small line like a hyphen) should move when you move the mouse. If it doesn't, first press the System Reset button, center top. If that doesn't work, check the connections described under setup in the Line Processor Users' Guide. The error light does not indicate a problem at this stage. If it comes on, turn it off by 19a@4

pressing the Error Reset button just to its left. The status lights should read 0x00. 19a@5 Step=6 Type "@ SPACE I SPACE 25 CARRIAGE RETURN" unless the port you are using to reach the TIP has been left open (See 10). Note: Normally the character "@"(atsign) gets the attention of the TIP. The TIP starts responding when you hit "atsign", and stops responding when you hit carriage return or linefeed. "@" is called the TIP intercept character. "@" is inconvenient for the Lineprocessor. The 25 in the command to the TIP in STEP 6 makes <CTRL=Y> the TIP intercept character. <CTRL=Y> will remain your TIP intercept character until you reset the TIP, or the TIP malfunctions, or you set the intercept to some other character. 19a@6 STEP=7 Strike "<CTRL=Y> SPACE L SPACE 43 CARRIAGERETURN" Note: 43 is the number of host Office-1; you may log into other hosts by using other numbers. Only certain hosts run NLS. The TIP will respond with its TENEX login message. 19a07 STEP=8 When you've seen the TENEX Login message, type "TER ESCAPE/ALTMODE LI ESCAPE/ALTMODE CARRIAGERETURN". 19a@8 STEP=9 Login to TENEX and NLS. 19809 STEP=10 When you are finished with your NLS session, you can disconnect from the TIP by typing <CTRL-Y> CARRIAGERETURN. Note: If you log out of TENEX at the end of your session, but do not disconnect from the TIP, you can pick up at STEP 9 next 19a010 time merely by typing <CTRL=C>. Simulate terminal type TYPE OK: TYPE = Tasker or Ti (terminal) or NVT; or Lineprocessor or Imlac or Execuport; or 33=TTY or 35-TTY or 37-TTY. The command "Simulate terminal type" makes your terminal mimic some other type of terminal, preserving the state of the current NLS session as much as possible. Its common use is to move a display user between DNLs and TNLS. Tasker, Imlac, and Lineprocessor -- which cannot be simulated from a teletype -- move the user to DNLS; all the other types operate in TNLS. 19aa TNLS example: BASE C: Simulate (terminal type) C: 33=TTY OK: BASE C: 19aa1 Site: Computer: Each computer in the ARPA computer network has a name corresponding to its location and called its Site. 19ab Network Information Center: See NIC. 19ab1 PDP=10: See PDP=10. 19ab2 size limits: A file may contain no more than 9690 statements (if each statement is little more than a word long) or 370 pages =



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NLS=8

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the Message user-subsystem:See message (PROGRAMS).19af3the TENEX MESSAGE, TXT file:See message,19af4sending an NLS file via sndmsg:See Output Terminal.19af5username:See directory,19af6network:See network.19af7

Software: information contained in an information storage device, or transferred via a communication medium as opposed to the hardware that makes up the device, or medium. This term is specifically used to refer to computer machine instructions, or "code". Stored information, or data, is contained in what is called a "data base". NLS software is oriented for use from a Display, or from a Teletype, Users may write their own software called userprograms. See also: documentation,

Dialog Support Systems (DSS):See Dialog.19ag1DNLS:Display oNLine System See DNLS.19ag2TNLS:Typewriter oNLine System.See TNLS.NLS:See NLS.19ag3

Sort STRUCTURE (at) DESTINATION OK: The command "Sort" puts the highest=level statements in a plex or group in order according to your current sort=key, Statements carry their substructure, "Sort statement" has no meaning and specifying "Branch" for this command defines a plex (one level down) to be sorted. After execution, you are at the first character of the new group or plex, 19ah

TNLS example: BASE C: Sort C: Plex A: 4b1 BASE C: Keys: sort keys and effects: See sort-keys, Sort-Keys library: These are some of the user-programs that modify the rules for sorting by the Sort STRUCTURE command in the BASE subsystem. They are available with the Load Program command in the Programs subsystem. For other useful sort-keys, see Class-II, Limitations of the default sort: See Limitations. 19ai1

Sortnmskp, SK: See Sortnmskp,19ai2Sortnocase, SK: See Sortnocase,19ai3Sortnum, SK: See Sortnum,19ai4

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	Sortrev, SK: See Sortrev,	19ai5
	Sortnmskp. SK: After loading the sortkey "sortnmskp", whenever you use the command "Sort" it will order statements in the default order but disregarding statement names.	19aj
	Sortnocase, SK: After loading the sortkey "sortnocase", whenever you use the command "Sort" it will order statements disregarding capitalizations,	19ak
	Sortnum, SK: After loading the sortkey "sortnum", whenever you use the command "Sort" it will order statements according to the first number anywhere in each statement. The number may include a decimal and may be immediately preceded by a minus sign. All statements without numbers will be put at the end in their original order.	19al
	Sortrev, SK: After loading the sortkey "sortrev", whenever you use the command "Sort" it will order statements in reverse the default order,	19am
	Source-code: The characters making up the human-readable program.	19an
	Source: one of the following:	19ao
,	SOURCE in command syntax: a variable in the command notation that tells you to indicate some text (sometimes files) to operate on. It's mainly meant for text already online, but you can also type in new text. In TNLS, SOURCE wants either an ADDRESS or an optional TYPEIN of text (prompted by A/[T]:). In DNLS you can also BUG (prompted by T/B/[A]:). When pointing (with BUG or ADDRESS) to Group or Text, two BUGs or two ADDRESSes are needed. See also: variable, notation.	19ao1
	ADDRESS: See address,	19ao1a
	OPTIONAL TYPEIN [T]: preceed the TYPEIN with <ctrl=u> see typein.</ctrl=u>	19a01b
	IN DNLS, you can also BUG the CONTENT (prompted by A/B/[T]:). See bug.	19ao1c
	source in file structure: Every statement (except the origin) is defined by a statement one higher which is called its source. The source is always one level higher than the node referred to as the substatement. In the illustration, the source of statement 1b2 is 1b; the source of 1b is statement 1. See also:	
	illustration,	19ao2
	sources for Sendmail items: See item (SENDMAIL).	19ao3
	SP=colon: SP: SPACE: In a few commands NLS requires a space to continue and prompts SP: , You need to strike the space bar,	19ap

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<	SP>: space key also represented as <>: The notation <sp> or <> represents the space bar on the keyboard (or all five keys depressed on the keyset. See also: keyset). In Terse recognition mode, <> represents space. See also: notation.</sp>	19aq
S	quare-brackets in content-analyzer patterns: In writing content analyzer patterns, square brackets instruct the search to pass a statement if the pattern enclosed is anywhere to be found in the statement. If you omit square brackets, the search will begin only at the first character and give up at the first character that fails to pass. You use the Programs subsystem to write content analyzer programs. See also: writing (PROGRAMS).	19ar
	Dr	
DM	enlo Park California, 94025	
(415) 326-6200 and ask for ARC.	19as
s	SEL: Source SELection: See source,	19at
s	tack: Subsystem Stack: an ordered list of the NLS subsystems you've employed. Those you reached via the Execute command are erased from the stack after the command is finished. When you Quit back to an earlier item in the stack, the intervening ones are erased. To view your subsystem stack anytime in NLS, type the left anglebracket (<) at the herald. To display the name of your current subsystem in NLS, type the right anglebracket (>) at the herald.	19au
	Seeing your current subsystem >: See greaterthan.	19au1
	Seeing your subsystem stack <: See lessthan,	19au2
5	tacks: Program stack: A stack is used to hold your programs by name in sequential order as you compile or load them. You can point to them by number or name to run them. The delete last command will delete the top or most recent program on your stack.	19av
	Running: See running.	19av1
	The Programs' Delete Last command: See Delete Last (PROGRAMS),	19av2
S	tar:	19aw
	to find the next name in an ADDRESS: See nextname,	19aw1
,	<pre>star convention in filenames: When you want to specify more than one file in a command, a star may replace any field of a filename. For example, to get all the versions of a file, type: directory, filename.extension; * Modification files have the extension ".PC; ". When you use "*" in a command it does not touch files with the extension ".PC; " unless it affects the permanent file that bears the modifications.</pre>	19aw2
	the calculator star (multiplu) commands. See multiplu	10002
	the cateurator star (multiply) command: see multiply.	13983

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S

S

stars-in-brackets: [**]: See stars in prompts.

stars in prompts: ** prompt for Special alternatives and FILTER: Steps in certain NLS commands allow a list of options that are not used frequenty. When full prompting is on and the list is too long to print easily, "[**]" represents the list. You may see the list by typing <CTRL=U> questionmark (?) in NLS. 19aw5 See: FILTER, options, verb, square-bracket.

Making prompting on, off and partial: See prompt 19aw5a (USEROPTIONS).

Start Record (of session to file) CONTENT OK: The command "Start Record" allows you to begin to record on a file all the interactions with NLS on another file. CONTENT wants you to TYPEIN or point to a FILEADDRESS of the file on which you want to record all the things you do. To terminate the recording, use the command Stop Record of session. Then you can see a simulation of exactly what you did by using the command Playback.

Playback Re	cord comman	nd: See	Playback.	19ax1
Stop Record	command:	See Stor		19ax2

Stop Record command: See Stop.

Startup (commands branch address) CONTENT OK: The Useroptions subsystem command "Startup" allows you to specify certain commands to take place automatically every time you enter NLS. CONTENT wants you to give the ADDRESS of a statement or branch of commands that can be executed. Thereafter, whenever you enter NLS, the commands in the branch at that address will be executed as in the Process STRUCTURE command, <CIRL=0> halts processing.

For automatic user-program or user-subsystem loading, See include (USEROPTIONS).

Effects: Because the process which carries out commands skips over the name of a statement, many users begin this branch with a statement consisting only of a name and place the actual commands in structure under the name. Remember, in building such a branch, statements derive their name delimiters from their SOURCE. If the delimiters of the SOURCE are NULL NULL, then the process will skip over the first word of your command, You can use the command Set Name (delimiters in) to change the name delimiters for your startup branch. 19ay1a

Statement: the basic NLS file STRUCTURE component made of STRINGs of from 1 to 2000 characters. It may be a character, line, sentence, heading, paragraph, table, or graphic. You point to a statement by pointing to any character within it. See also: Insert Statement, INFILEADDRESS, STRINGPOSITION.

STRING: See STRING.

GLOSSARY

19az

19az1

19aw4

19ax

19ay

19ay1

S structural relationships: See structural. 19az2 signatures: statement signatures: See Capital=K. 19az3 Statement (at) CONTENT OK: The Sendmail subsystem command "Statement" allows you to send an NLS statement. Specify the statement to be mailed as a SOURCE. VIEWSPECS do not matter. 1960 19601 Statement: See branch. 19b@2 SOURCE: See statement. viewspecs: See viewspecs. 19603 19ba statement=return ring: See return. STATEMENTNAME: statementname (no preceding character): a string of characters that begins with an alphabetic letter, is enclosed in name delimiters, and precedes all other printing characters of the statement it names. It may include letters of the alphabet, numbers, hyphen -, the atsign @, and apostrophe '. Case of letters is ignored. Statementnames "name" a statement so you can point to it by typing its name in an ADDRESS. One statementname can be assigned to each statement. Using this in an ADDRESS works like the Jump (to) Name Any command. 19bb 19bb1 name=delimiters: See name=delimiters. searching: See searching. 19bb2 STATEMENTNUMBER: 1A2B3C4D5E... (no preceding character): number assigned to a statement, which indicates the exact position of the statement within the structure of a file. The number does not remain a permanent part of the statement, and will change if you change the position of the statement. It is a series of fields containing alternately letters and digits. The first field always contains a number. The total number of fields indicates the level of the statement; the numbers and letters indicate consecutive statements. See also: illustration. 19bc status: The Show File Status command: prints a list of information about the file. The Verify File command checks to see if the file is bad. See also: Show. 19bd Show File Status command: See Show File Status (BASE). 19bd1 verifying files: See verify. 19bd2 steps in using a content-analyzer: Use the BASE subsystem command "Set Content" to typein a pattern; or the Programs subsystem command "Compile File" to compile a

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program or the Programs subsystem command "Load Program" to compiled program with the extension .CA. Use the BASE subsystem command "Set Viewspecs" and type turn the content-analyzer on, and i to turn it off. In DNU	o load a in i to LS. follow
i or j with f to recreate the window.	19be
Stop Record (of session) OK: The command "Stop Record" stop recording your NLS session on the file you had designated your interactions. At that point, the file will be closed more commands will be recorded.	ps to record and no 19bf
TNLS example: BASE C: Stop C: Record (of session) OK: BASE C:	19bf1
Start Record of session command: See start.	19b£2
Playback Record of session command: See playback.	19bf3
storage: See directory.	1969
STRING: one or more consecutive characters making up a sind statement. When STRING is used in command syntax notation, one of the following commandwords prompted by "C:". See a	gle , it means lso:
file, STRUCTURE, INFILEADDRESS, STRINGPOSITION.	19bh
Character: See Character.	19bh1
Number: See Number,	19bh2
Word: See Word,	19bh3
Visible: See Visible,	19bh4
Invisible: See Invisible,	19bh5
Text: See Text,	19bh6
Link: See Link,	19bh7
STRINGPOSITION: within one statement (preceded by plus or m Letters PRECEDED IMMEDIATELY BY A PLUS (+) mean SKIP FORWAR MINUS (-) mean SKIP BACKWARD. A number between the plus or and the letter indicates the number of skips. These element only operate within the statement where you are.	minus): RD, BY A r minus nts will 19bi
c skip character: See character.	19bi1
e skip to end (last character) of statement: See stat	tement. 19bi2
f skip to front (first character) of statement: See s	statement. 19b13
i skip invisible: See invisible.	19b14

GLOSSARY

c		&SRI=ARC 21=NUV=75 19:58	66136
ັ			101.15
	1 skip link: See link,		19015
	n skip number: See number,		19b16
	v skip visible: See visible.		19bi7
	w skip word: See word,		19b18
st	ructural relationships within files: We r according to how they stand in relation to ile. The definitions of relationships fou in illustration available in Help. See als TRUCTURE.	efer to statements other statements in the nd below often refer to o: illustration,	19bj
	level: See level.		19bj1
	origin: statement==Statement zero See o	rigin.	19bj2
	source: See source,		19bj3
	substatement: See substatement,		19bj4
	successor: See successor.		19bj5
)	predecessor: See predecessor,		19bj6
	head: See head,		19bj7
	tail: See tail,		19bj8
	end: See end,		19bj9
	up: See up,		19bj10
	down: See down,		19bj11
	next: See next,		19bj12
	back: See back,		19bj13
	return: See return,		19bj14
ST	RUCTURE: the organization of an NLS file, n command syntax notation, it means one of ommandwords, See also: structural, file,	When STRUCTURE is used the following	19bk
	Statement: See Statement,		19bk1
)	Branch: See Branch,		19bk2
	Group: See Group,		19bk3
	Plex: See Plex,		19bk4

S

Subcollections CONTENT OK: The Sendmail subsystem command "Subcollections" enables you to change the default subcollection assignment for cataloging of your item. CONTENT wants IDENTS which are groups of idents. If the item has an RFC number, it will automatically appear in the NIC and NWG subcollections. In general NIC numbers come from people outside ARC. See also: Numbering.	19b1
GROUP-IDENT: See group-ident,	19611
CONTENT: See content.	19512
NIC: See NIC.	19513
NWG: Acronym for Network Working Group.	19b14
Subnet: The array of IMPs, TIPs and communication circuits which deliver messages from one host to another.	19bm
substatement: a statement that is one level lower than the one you are referring to. In the illustration, statements 1, 2, and 3 are each a substatement of the origin statement (0). Statements 1a and 1b are the substatements of statement 1. Statement 3c1a is the only substatement of 3c1 shown. Substatements are always one level lower than the one referred to as the source. Statements (such as statement 2) do not always have substatements. See also: illustration.	19bn
Substitute STRING (in) [(Filtered:) FILTER] STRUCTURE (at) DESTINATION (new STRING) CONTENT (old STRING) CONTENT (Finished?) S/Y/N OK: The command "Substitute" allows you to put a new STRING in the place of an old STRING everywhere it appears in the STRUCTURE you specify. This is the most common editing command in TNLS.	1950
TNLS example: BASE C: Substitute C: Visible (in) C: Branch (at) A: 0 (New VISIBLE) T: \$1000,50 (Old visible) T: \$1,50 Finished? Y/N/S: Yes OK: Substitute In Progress Substitutions made: 8 BASE C:	19b01
Effects S/Y/N: Substitute is easier than Replace when you want to make the same replacement in more than one location. TYPEIN the new and old text for CONTENT. If you're in TNLS and want to substitute nothing for the old STRING, just give a Command Accept for CONTENT. In DNLS use <ctrl-n>, S/Y/N gives you the choice of seeing your current substitution list status or cycling through the command again (you are back at "new") and making another substitution in that STRUCTURE. You are limited to 30 substitutions with a maximum of 600 total characters typed in by</ctrl-n>	

you,

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19bo2

19bo3

	STRING: character, word, text, visible, invisible, number, link: See STRING,	19bo
	STRUCTURE: statement, branch, group, plex: See STRUCTURE,	19bo
	.SUBSYS; An L10 program written to support a CML program: A filename with this extension points to a compiled L10 program. The Load Program command will place the L10 program in your buffer and then search for a file with the same name but with extension .CML;. When it finds such a file, it will automatically load that program as well and automatically attach it as a subsystem if it is formatted for that. See also: CML, filename, loading, L10, buffer, programs.	19b
	SUBSYSTEM: a subordinate system that with others makes up a whole system. The subsystems that divide the commands in the Online System (NLS) are listed below. When the variable SUBSYSTEM is found in a command syntax expression, it stands for one of these (or an attached usersubsystem) as a commandword. By default, you are in the BASE subsystem when you enter NLS. In TNLS, heralds tell you your current SUBSYSTEM. In DNLS the name of your current SUBSYSTEM is in an upper corner of your screen. See also: systems,	195
1	user-subsjacens,	170
	Base: See base,	19bg
	Calculator: See calculator.	19bg
	Programs: See programs,	19bg
	Sendmail: See sendmail.	19bg
	TENEX Timesharing System: See TENEX,	19bg
	Useroptions: See useroptions.	19bg
	User=subsystems: See usersubsystems,	19bg
	Attaching subsystems: See attach,	19bq
	Stack: Subsystem Stack See Stack,	19bg
	Heralds: See heralds,	19691
	Subtract CONTENT OK: The Calculator subsystem command "Subtract" subtracts the value of the accumulator by the number you specify for CONTENT, See also: operators, accumulator, CONTENT, OK,	196
	successor: the statement following a given statement at the same level and having the same source. In the illustration, the successor	

FILTER option: enter VIEWSPECS: See filter.

level and having the same source. In the illustration, the successor of 3a is 3b; 1b3 is the successor of 1b2 (which is called the predecessor), Statements either have one successor or none (such as

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1b). The origin statement NEVER has a successor. See also: illustration.	19bs
suggestions (about NLS): See reporting,	19bt
Supervisor: See universal,	19bu
Superwatch: a group of programs that measures the loads on different pieces of hardware and on subsystems of TENEX and NLS.	19bv
Syntax (of command) COMMANDVERB OK: The command "Syntax" is available in all subsystems. Use it to see a short description of the COMMANDVERB you specify, See notation.	19bw
Systems: entering and leaving: To login to NLS online, you need to first call a timesharing system, TENEX. Then you call NLS from TENEX. When you enter NLS, you begin in the BASE subsystem. A number of other SUBSYSTEMs are available. To leave NLS or any other SUBSYSTEM, use the Quit command. To goto another NLS SUBSYSTEM, use the Cote subsystem command. See also:	10.64
the Goto SUBSISIEM COmmand, See also: SUBSISIEM,	1908
login to TENEX: See login,	19DX1
NLS: See entering=NLS.	19bx2
reaching subsystems: See reaching,	19bx3
reporting bugs and making suggestions: See reporting.	19bx4
Hardware: See Hardware,	19bx5
Software: see Software,	19bx6
Documentation: See Documentation,	19bx7
commands in most NLS subsystems: See universal,	19bx8
systems=commands: See universal.	19by
Process (commands from) STRUCTURE OK: See Process.	19by1
Logout OK: See Logout,	19by2
terminal commands: See terminal=commands.	19by3
	<pre>Lib), The origin statement NEVER has a successor. See also: illustration. suggestions (about NLS): See reporting. Supervisor: See universal. Supervisor: See universal. Syntax (of command) COMMANDVERB OK: The command "Syntax" is available in all subsystems. Use it to see a short description of the COMMANDVERB you specify. See notation. Systems: entering and leaving: To login to NLS online, you need to first call a timesharing system, TENEX. Then you call NLS from TENEX, when you enter NLS, you begin in the BASE subsystem. A number of other SUBSYSTEMs are available. To leave NLS or any other SUBSYSTEM, use the Quit command. To goto another NLS SUBSYSTEM, use the Goto SUBSYSTEM command, See also: SUBSYSTEM. login to TENEX: See login. NLS: See entering-NLS. reaching subsystems: See reaching. reporting bugs and making suggestions: See reporting. Hardware: See Hardware. Software: See Software. Documentation: See Documentation. commands in most NLS subsystems: See universal. systems-commands: See universal. Process (commands from) STRUCTURE OK: See Process. Logout OK: See Logout. terminal commands: See terminal-commands.</pre>



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<TAB>: Typing a TAB during TYPEIN creates an invisible in the file, which causes the text to skip to the next tabstop on the line and resume printing there, <CTRL=I> creates a TAB; you can define an

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additional character for TAB with the Useroptions' Control characters command. The default tabstops are columns 8,16,24,32,40,48,56,64,72,80,88,96,104. Changing the tabstops is done with the Useroptions subsystems Printoptions Tab command. If you change tabstops while working on one file, they will also be changed for all other files you load. They will not, however, be changed for other users who may be working in the same files as you when a character for TAB is typed at the herald in BASE subsystem, it is a command with a different special function.	• 20e
Useroptions' Control characters command: See control (USEROPTIONS).	20e1
Useroptions' Printoptions Tab stop settings command: See printoptions tab (USEROPTIONS).	20e2
User Programs: See programs,	20e3
The TAB command in BASE subsystem: See tab-command,	20e4
Setting tabstops: See printoptions tab (USEROPTIONS).	20e5
Table: data displayed in graphs or columns and rows,	20f
tail: the last statement at the same level having the same source a given statement. In the illustration, the tail of 3a is 3c; the tail of 3c1 is 3c1 itself. The origin statement has no tail. See also: plex, illustration,	s 20g
TELNET: In the ARPA Computer network, the software that allows a user at one site access to a timesharing system at another site. User Telnet is the software at the user's site; Server Telnet is th software at the remote site.	e 20h
temporary modification: You can set the modification mode to allow modifications that are not permanent with the Set Temporary modifications command. This device is sometimes called Browse Mode After making modifications while in this mode, you are given a chance to keep them. Use the Reset Temporary modifications command if you do not wish to keep the modifications; the modification file in which they are located will be deleted, and the modification mod is set back to normal for the given file. See also: modification.	e 201
Set Temporary (modifications) command: See Set Temporary,	2011
Reset Temporary (modifications) command: See Reset Temporary.	20i2
TENEX Timesharing System: the timesharing system that supports NLS on the PDP=10. NLS runs as a subsystem of TENEX (which is called the "superior Executive" at this top level) and draws extensively o TENEX's file handling. In turn, TENEX is available as a subsystem of NLS via the Goto TENEX command. Execute TENEX doesn't work.	n 20j

	leaving NLS to TENEX: To return to the TENEX timesharing system from NLS use the Guit NLS command. After that, you can type "con" followed by carriage return at the TENEX herald to return to NLS. To break contact with TENEX entirely use the Logout command in TENEX or NLS. To leave NLS anytime for an excursion in TENEX, use the Goto TENEX command. This command issues to you a second copy of TENEX called "inferior exec". To return from	
	this second copy to NLS, use the TENEX Quit command.	20j1
	login: See login,	20j2
	guestionmark command: See guestionmark.	2013
	recognition-TENEX: (recognition of commands in TENEX): Commands in TENEX, either the Executive or a subsystem of NLS, are recognized in the Demand mode. See demand.	2014
	files: See files.	2015
	filenames in TENEX: See filenames.	2016
	SNDMSG: See spdmsg	2017
	TRANK as a subsusteen of M.C. Con inforder	2011
	TENEA as a subsystem of WLS: See Interfor.	2018
TEI to	NEX-herald: the "@" at the margin. It shows that you are talking the timesharing system that supports NLS and TENEX is ready to ccept commands.	20k
tei	rminal=commands:	201
	Accept Connect (from terminal number) (for) CONTENT OK: See Accept.	2011
	Disconnect Terminal DK: see Disconnect,	2012
	Simulate terminal type TYPE OK: See Simulate.	2013
	semicolon: See semicolon.	2014
	Connect to ITY: See Connect TTY,	2015
	Connect to Display: See Connect Display,	2016
	Clear TTY simulation window: See Clear,	2017
rer ei fr	minals: Devices more or less like typewriter keyboards with ther paper or Screens which people use to typein and read output com computers, See: DNLS, TNLS,	20m
	connecting terminals: [linking] See connecting,	20m1
	Tip Settings: See settings.	20m2

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terminal commands: See terminal-commands.

Terse: a recognition mode that recognizes one commandword for each single character. To recognize other commands beginning with the same character, you must first type a space (represented by <> in the list of commands in questionmark) and then these commands will become available in a secondary mode. See also: commandword. Four secondary recognition modes are available in Terse after the space. These secondary modes work like they do when they are primary modes. 20n

Terse: See Terse,20n1Anticipatory: See anticipatory,20n2Demand: See demand,20n3Fixed: See fixed,20n4

Terse: Terse Secondary mode works like Anticipatory except it contains only those words that are not recognized with one character before you type the space. With the rest of the secondary modes, after you type the space you have the choice of all words beginning with that letter, see also: ANTICIPATORY.

Text: any continuous STRING of characters within a STATEMENT. To point to Text, you must point to both the beginning and the end characters,

pointing: See pointing.

TIP: Terminal IMP: An IMP which is augmented by additional memory and a multiline controller. The TIP contains a network control program and a TELNET program within it to permit terminals to reach the network directly through it. See also: IMP. 20g

settings: See settings.

Title CONTENT OK: The Sendmail subsystem command "Title" allows you to enter a title which will be used in journal citations, hardcopy printouts of the document, catalog listings and indexes including the title-word index.

document: See document,	20r1
hardcopy: See hardcopy,	20r2
indexes: See indexes,	20r3
word: title=word indexes: See catalogs.	2014

20m3

200

20p

2001

20q1

20r

&SRI=ARC 21=NOV=75 19:38 22132 т title=word: See catalogs. 205 TNLS: Typewriter oNLine System. See also: DNLS. 20t ONLine system: See NLS. 20t1 simulation: TNLS simulation: See simulate. 20t2 To-get=DNLS: If you have told TENEX you are using an Imlac or Lineprocessor by the Terminal type command after logging into TENEX, to get into NLS type NLS after the TENEX herald. See also: login, entering=NLS. 200 TENEX's Terminal type command: See terminal-type. 20u1 TODAS: Acronym for Typewriter Oriented Documentation Aid System. The version of NLS used from typewriter-like terminals prior to 1971. See also: TNLS. 20v Total OK: The calculator subsystem command "Total" copies current accumulator value to the end of the Calculator file. The formatted value will be typed. See also: file, accumulator. 20W Transpose: The command "Transpose" allows you to make NLS entities change places. 20x STRING: Transpose STRING (at) DESTINATION (and) DESTINATION OK: This group of "Transpose" commands makes two STRINGS of the same kind replace each other. 20x1 TNLS example: BASE C: Transpose C: Word (at) A: 1 and A: 1 +e OK: BASE C: 20x1a Effects: After execution, you are at the first character of the STRING you selected first. 20x1b STRING: Character, Text, Word, Visible, Invisible, Number, or Link: See string. 20x1c STRUCTURE: Transpose STRUCTURE (at) DESTINATION (and) DESTINATION [FILTER] OK This group of "Transpose" commands makes two STRUCTURES of the same kind replace each other. 20x2 TNLS example: BASE C: Transpose C: Statement (at) A: 1a and A: 1 OK: BASE C: 20x2a

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20x2b

20x2c

20y

20z

20z1

20z2



FILTER option: enter VIEWSPECS: This option transposes only statements that "pass" certain viewspecs you can specify as a string of character codes. Type the OPTION character first and then enter any combination of the following viewspecs: for level==a, b, c, d, e, w, x; for content analyzer==i, j, k; for sequence generator==0, P. If the filtering leaves statements somewhere without a source, substatements will move up in level.

STRUCTURE: Statement, Branch, Plex, or Group: See structure. 20x2d

Trick: When NLS is searching for the boundaries of a word, visible, or invisible, etc., the character you actually address or bug is ignored. For example, if you point to the space between two words, both words will be effected by your command.

Trim Directory (no. versions to keep) CONTENT OK (really?) OK: The command "Trim Directory" will delete any extra versions of each file so that there are no more than the given number of versions. If you have write access to the directory (either by definition or having connected to it), you don't need to type the password. If you don't specify a directory, it will trim the directory to which you are connected; the password won't be necessary.

TNLS example: BASE C: Trim C: Directory (no, versions to keep) T: 1 (really?) OK: Trimmed Files are: (DOE, WONDER.NLS,) 2 files deleted BASE C:

versions: See versions.

TTY=simulation window: The TTY=simulation window normally occupies 2 lines at the very top of your DNLS screen. It shows the last two lines of what you would see if you went into TENEX via Goto, Execute, or <CTRL=C>. If you want to see more than these two lines, do one of the above, or move the window to one of your larger file display windows. Some kinds of information that will appear in this window are: general status info (like the name of a file loaded or updated), TENEX status response to <CTRL=T>, errormessages, system messages, notification of connected terminals, semicolon (comment) commands, response to slash and backslash in ADDRESSES. If you were in TNLS, you would see all this included among your NLS feedback and printing.

to make the TTY window blank again: use the Clear (TTY Window) command.

20a@

20a@1

moving your TTY window to a file display window: use the Set TTY (simulation for window) command,	20a@2
to move your TTY window back to top of screen: use the Reset TTY (window) command.	20a@3
Connected terminals for DNLS users: See connected.	20a@4
TTY: See terminals.	20aa
window: See display,	20aa1
TXT; represents: a sequential file unloadable in NLS, See sequential,	20ab
TYPEIN: any string of characters from the keyboard, terminated by an OK.	
When prompting is on and NLS is waiting for you to type in either text, a FILEADDRESS, or an Ident, it prompts you with "T".	20ac



Т

II

Ħ 21 u Viewspec: recreate display after each change: "Re=create display screen whenever the user's location or contents on the screen change," Viewspec u always displays on your screen the current view of your current location. The display is automatically re=created after an editing operation or changing views, etc. Viewspec u turns off viewspec v, but does not affect any other viewspec. This is a default viewspec. See also: DNLS, viewing, re=creating, f, v. 21a <UKC>: UnKnown Character: could be an underline, or overline, or just about any very special character not in the ASCII standard 72 character set. See also: sort, loading (PROGRAMS). 21b Undelete: to bring back one of the following that has been deleted but not expunged. 21c File: Undelete File CONTENT OK: The command "Undelete File" returns to normal use the file you specify for CONTENT that has been deleted. 21c1 TNLS example: BASE C: Undelete C: File T: neargone.NLS;4 Undeleted Files are: (YOU, NEARGONE.NLS:4.) BASE C: 21c1a Effects: Once a file has been deleted it will be erased permanently from the system if you use the Expunge command, if the operator runs a program to expunge deleted files, or if you log out. You may restore the file from the deleted file list back to normal status at any time before it is expunged. See also: Show Directory, undeleted (BASE). 21c1b Expunge Directory command: See Expunge Directory. 21c1b1 Delete File command: See Delete File. 21c1b2 Filename: See fileaddress. 21c1b3 Show Directory: See Show Directory: 21c1b4

Modifications: Undelete Modifications (to file) DK: Modifications (made with editing commands, programs...) to a file are kept separate until merged into the file with an Update. All modifications since the last Update can be thrown away with the Delete Modifications command. Deleted modifications can, until



Unrecorded ANSWER: The Sendmail subsystem command "Unrecorded" is not completely implemented. Items marked "Unrecorded" may be left out of journal catalogs when they are generated. Eventually such an item will not be given a Journal number and not be recorded in the Journal.

up: the statement one level higher and preceding a given statement (i.e., its source). In the illustration, statement 1b is one up from

U

21f

U 1b3; statement 1 is two up from 1b3; the origin is three up; four up 21g would still refer to the origin. See also: illustration. 21h uparrow: when " appears in an expression like: "Y: it refers to a control 21h1 character See CIRL-character. The uparrow command: " [TNLS only]: Typing the charactr " (uparrow) at the herald in the BASE subsystem will print the 21h2 statement that is back from the statement where you are located. TNLS example: BASE C: * 3b Of shoes and ships and ceiling wax, of cabbages and kings, 21h2a BASE C: Effects: No DK is required for the execution of this command. After execution, you are located at the first character of the 21h2b statement printed. The uparrow command in Help (for advanced users): See uparrow 21h3 (HELP). 21h4 Uparrow to expand Sendmail distribution: See expanded (SENDMAIL). Update File: The command "Update" incorporates your modifications 21i into your file. OK: Update File OK: The command "Update File" permanently incorporates the changes you have made in a file. A new version of the file is created that includes the changes you have made. The old version will look as the file did after the previous update. At any time, before you use the Update command, you may 2111 discard all changes with the Delete Modifications command, Delete Modifications command: See Delete Modifications. 2111a Compact: Update File Compact OK: The command "Update File Compact" updates your file is such a way as to use the file space efficiently. This saves on disk pages, but takes more computer time to execute. See also: file, modifications, version. 2112 TNLS example: BASE C: Update C: File OK/C: Compact OK: 2112a BASE C: Update File Old (version) OK: The command "Update File Old" Old: incorporates the changes you have made into the old version.

This is a bit dangerous; if any problems occur during the Update,

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U

user computer on the ARPANET: See user.

userguides: The directory "userguides" houses hardcopy formatted source files for user guides and the locator file.

locator file: The file named <userguides, locator, > is an outline of documents. In Locator, links are arranged to lead you easily to useful views of actual documents. Branch 1 of locator instructs you how to use locator. Further guidance appears as needed in the subject files. You cannot currently access the locator file with the Help command. In TNLS, say "Print Branch userguides, locator, 1 .1" followed by a carriage return. In DNLS say "Jump (to) Link userguides, locator, " followed by CA.

username: See directory,

Useroptions subsystem: You can alter how you interact with NLS to fit your own equipment, use patterns, and style by specifying the parameters controlled by the Useroptions subsystem. The effects of Useroptions commands hold for future NLS sessions, until you use the commands again to change them specifically. See also: SUBSYSTEM, Heralds, 21q

Commands available in the useroptions sub:	system== 21q1
Control characters: See Control (USEROPT	IONS), 2192
Currentcontext (length) NUMBER OK: See Co (USEROPTIONS),	urrentcontext 21q3
Entry Subsystem/Program : See Entry	(USEROPTIONS), 2194
Exclude Subsystem/Program : See Excl	ude (USEROPTIONS), 21q5
Execute (command in) SUBSYSTEM: See exect	ate, 2196
External (names link file address) CONTEN (USEROPTIONS),	r OK: See External 21q7
Feedback FEEDSPECS OK: See Feedback (USE)	ROPTIONS), 2198
Goto SUBSYSTEM OK: See Goto.	2199
Herald [affects TNLS only]: HERALDSPECS ((USEROPTIONS).	DK: See Herald 21q10
Include Subsystem/Program : See Inclu	ide (USEROPTIONS), 21911
Return (ring entries) CONTENT OK: See Ret	turn (USEROPTIONS), 21912
Filereturn (ring entries) CONTENT OK: See (USEROPTIONS).	e Filereturn 21913

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21n4

2101

21p

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2	Name (delimiters defaults): See Name (USEROPTIONS),	21914
	OKREPEAT <ctrl-b>: See OKREPEAT,</ctrl-b>	21915
	Printoptions PRINTSPECS CONTENT OK: See Printoptions (USEROPTIONS).	21916
	Prompt OK: See Prompt (USEROPTIONS),	21q17
	Quit: See Guit.	21g18
	Recognition (mode) RMODE OK: See Recognition (USEROPTIONS).	21919
	Reset: See Reset (USEROPTIONS).	21920
	Show: See Show (USEROPTIONS),	21921
	semicolon: See semicolon.	21922
	Startup (commands branch address) CONTENT OK: See Startup (USEROPTIONS).	21923
	Viewspecs Default VIEWSPECS OK: See Viewspecs (USEROPTIONS),	21924
us u m t y a	erprograms library: In directory PROGRAMS certain compiled ser=program files are supported and maintained by ARC staff. By sing the Load Program Command in the Programs Subsystem, you can ake user=subsystems to add to your NLS commands, content=analyzers o add to your filtering capabilities, and sort=keys to increase our ways of sorting. If any of these programs does not work, send message to FEEDBACK. See also: programs, loading.	21r
	Usersubsystems library: See Usersubsystems,	21r1
	Content=analyzers: See Content=analyzers,	21r2
	Runable Programs (REL files): See Runable,	21r3
	Sort=Keys library: See Sort=Keys,	21r4
	Attachable subsystems already loaded: See Attachable,	21r5
	Sequence Generators: See Sequence.	2116
	Class=II and III user=programs: in Directory XPROGRAMS See Class=II,	21r7
Us "1	ersubsystems library: The list of user=programs in directory programs" that can be loaded as additional subsystems, See also: oading (PROGRAMS),	215
	Format: See Format,	2151
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Message: See Message,		2152
Modify: See Modify,		21s3
Publish: See Publish.		2154



v Viewspec: defer recreating display: "Do not re=create display screen when the contents change," v defers display re-creation until you use the f viewspec, The suppression of re-creation continues until you change back to viewspec u. This viewspec saves time when the response is slow, but be cautious; you must edit from the bottom of the screen to the top or it may look like you are at a different place than you really are. See also: DNLS, u, f. V-colon: V: VIEWSPECS: The prompt V: asks you to specify viewspecs by typing one or more single-letter codes that control the appearance of your view. When you have typed all the viewspecs you want, conclude with CA. If you do not want to change your view of your file, type a CA without any viewspecs. You can turn the VIEWSPEC field off in all commands by the Useroptions Viewspecs Off command. VIEWSPECS: See viewspecs. Useroptions Viewspecs Off command: See Viewspecs (USEROPTIONS). VARIABLES: ALL CAPITAL LETTERS: words used in the command syntax notation that tell you the alternatives for that part of the command. Some stand for a list of nominals, others for a list of two=to=three alternative operands. For example, the variable STRUCTURE is a nominal which could be a statement, branch, group, etc. The variable SOURCE is an operand (such as file) that you specify to show where you want something to happen. See also: nominal, operand. 22c SUBSYSTEM: See subsystem. 22c1 DESTINATION: See destination. 22C2 SOURCE: See source. 22c3 CONTENT: See content. 22c4 ADDRESS: See address. 22c5 TYPEIN: See typein. 22c6 STRING: See string. 22c7 STRUCTURE: See structure. 2208

LEVEL=ADJUST: See level=adjust.

22a

22

22b

22b1

22b2

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VIEWSPECS: See viewspecs.	22c10
OPTION: See optional	22011
OPIION: See Optional.	22011
BUG: See bug.	22012
OK: See ok.	22c13
verb=nominal: a term to describe the verb followed by a nominal (noun=like word) combination that begins NLS Base commands. When you are prompted with a C: , type a verb=nominal specifying "do this" followed by operands which specify "to what and where," See also: prompts, operands.	22d
verbs in the BASE subsystem by classes: See commands (BASE),	22d1
nominals: See nominals.	22d2
verb=noun: See verb=nominal.	22e
verb: See verb=nominal.	22f
Verify File OK: The command "Verify File" will check certain aspects of your loaded file. If the file is bad, the message Bad File will appear. Sometimes this message appears when a command cannot be executed because of file difficulties. The Verify file command does not check every problem with the file, but when it reports a bad file, you have serious problems. If the file is not bad, it will say "Successful, internal structure is OK".	22g
BAD FILE: If this message is printed, immediately type "control=C reset carriage=return": <ctrl=c>reset<cr> and try the following, In TENEX, type NLS<cr> , Load the file and use the Update File Compact command, If the Verify File command still says BAD FILE, two courses of action are listed here. See also: TENEX,</cr></cr></ctrl=c>	22g1
Load an old version: You may have to undelete the old version. You can undelete old versions by using the Undelete File command or you can get them from the nightly dump tape by linking or sending a message to the computer operator. The deleted option in the Show Directory command lists files deleted but still online (not yet expunged). If the Verify File command does not say BAD FILE on the old version, then type <ctrl=c>reset<cr> and delete the BAD versions. The old version will not contain changes you have made since the last time you used the Update command. See also: Undelete, Show Directory. Expunge</cr></ctrl=c>	2201a
files Con files	2291d
TITES: Dee Illes.	22g1a1
version: See version,	22g1a2
Delete File command: See Delete File,	22g1a3

Create a new empty file and copy into it the good structure from the bad file.

Check to make sure all structures you pointed to were copied into the new file. Use the Update File Compact command on the file just created. If the Verify File command still says BAD FILE, type <CTRL=C>NLS<CR> and load one of the bad files. Try to determine the location of the bad spot by reading selected portions. Often the problem is in a single statement, usually one you have recently written on. If you can isolate that statement and copy the good parts of the file to a new file, you can save your work. If you use the command Output Terminal, the file should stop printing at the spot that is bad. In DNLS, if the file is so bad that it will not display, you must Simulate TNLS to do this process. In general, use Update File Compact and <CTRL=C>NLS<CR> a lot in the process of saving a bad file.

TNLS example: BASE C: Verify C: File OK: File Verify in Progress Succesful, internal structure is OK BASE C: or it could look like: BASE C: Verify C: File File Verify in Progress BAD FILE BASE C:

VERSION: serial numbers attached to successive updates of the same file. A new version is usually created with the Update File command and can be created with the Copy and Move File commands. Only two consecutive versions are kept in a directory. The oldest version is automatically deleted. The version number follows the semicolon in filenames, See also: FILENAME.

Update File c	ommand: See Update.	22h1
Copy File com	mand: See Copy File,	. 22h:
Move File com	mand: See Move File,	22h

viewing contents of files on DNLS screen: see also: reading. When you enter DNLS, your initial file will appear in your file display area, starting with the origin statement and displaying as much as will fit on the screen. Every time you go to a new location in some file (by loading or creating a file or by jumping), the display will start at that location and display as much of the text as fits. When you have a particular view on the screen, you can, with NLS commands, operate upon the text in view by pointing with BUG or by giving an ADDRESS. You can operate on the text not in view by giving an ADDRESS. A new window can be made by inserting an edge.

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22g1b

22h

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	You get around in files, i.e., change your view, by jumping. See also: initial, window, accessing, Load, pointing, BUG.	221
	Entering DNLS: See to-get-DNLS,	2211
	The view you get of a place is controlled by viewspecs: You can change the kind of view you want by manipulating these: See viewspecs.	2212
	Jumping in DNLS: See Jumping,	2213
	Beginning statement in work area and your location: After you Jump or Load (or delete the statement at the top), the work area starts with the new statement pointed to as soon as the screen is re=created, except when a content filter pattern obscures that statement. In the latter case, the first statement that passes the filter appears at the top of the screen. See also: content=pattern, filters.	2214
	re-creating the display: See re-creating,	2215
	dentes secondo destas estados secolos das construis show	224
1	lewing=commands: jumping, printing, reading, etc. see also: show.	223
	<linefeed>: <ctrl=j>: See LINEFEED.</ctrl=j></linefeed>	2231
	Load File CONTENT OK: See Load.	2232
	Output: See Output.	2233
	Print (in TNLS): See Print,	22j4
	Jump (in DNLS): See jump.	22j5
	Reset Content (pattern): See Reset Content,	2216
	Reset Viewspecs: See Reset Viewspecs.	2217
	Set Content (pattern): See Set Content.	2218
	Set Viewspecs: See Set Viewspecs.	22j9
	Show Viewspecs: See Show Viewspecs (BASE).	22110
	TAB=command: See TAB=command,	22j11
	uparrow * [TNLS only]: See uparrow.	22j12
	These 3 commands show where you are:	22j13
	backslash [TNLS only]: see backslash,	22j14
	period [TNLS only]: See period.	22115
	slash [TNLS only]: See slash.	22j16

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VIEWSPECS: single=letter codes that control the appearance or "view" of your files. When VIEWSPECS are allowed in a command, you are prompted by "V:". You may type a string of any of the viewspec codes, terminated by OK. Type just an OK if you don't want to change the viewspecs. Uppercase viewspecs do different things than lowercase viewspecs. To see in the Help command the definitions of lowercase viewspecs, type the viewspec. To see upper=case viewspecs, preceed the viewspec with the word "capital=". For instance, capital=B. 22k changing: ways of changing viewspecs. See changing. 22k1 viewspec categories and lists == 22k2 clipping viewspecs: cut off lines or levels. See clipping. 22k2a formatting viewspecs: change layout. See formatting, 22k2b display-control viewspecs: DNLS only. See display-control. 22k2c FILTER viewspecs: See FILTER. 22k2d content-analysis and sequence generator viewspecs: See content=analysis. 22k2e codes: list of viewspecs in alphabetical order. See the NLS cue card. 22k2f Viewspecs Default VIEWSPECS OK: The Useroptions' subsystem command "viewspecs" allows you to select which particular viewspecs you want to be in force when you begin your next NLS sessions, See also: Show Viewspecs (USEROPTIONS), Reset Viewspecs (USEROPTIONS). 22k3 Effects: You select the viewspecs to be in effect at the beginning of your NLS sessions. The Base command Set viewspecs will change viewspecs, but they will then revert to the "Default" set next time you login. The command Reset Viewspecs will return viewspecs immediately to that same status. Useroptions Reset Viewspecs command will return your "Default" viewspecs to hjupmwyACEHJLP. 22k3a Showing status of Viewspecs: The command "Show Viewspecs" will allow you to see the viewspecs presently in force in the current session. The Useroptions' subsystem command "Show Viewspecs" shows the initial viewspecs for successive NLS sessions (established in Useroptions). 22k3a1 Visible: a continuous STRING of printing characters (which excludes, for example, spaces and carriage returns). Pointing to any

character position within the visible will serve to point to the entire visible,

V

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trick: See trick.



W	
<pre>w Viewspec: show all lines and all levels: "Show all levels and all lines of each statement," Viewspec w changes viewspecs x, a, b, d, e, g, r, and t. w = c (show all levels) plus s (show all lines).</pre>	23
This is a default viewspec,	23a
Where command in TENEX: The TENEX command "Where" reveals the terminal (here referred to as "TTY") number, job number, and current subsystem of any user currently logged in. The command is: Where (is user) USERNAME <cr></cr>	23b
USERNAME = type the person's login name.	2361
<cr> = the Carriage Return key on the keyboard.</cr>	2362
TENEX has commandwords and noisewords similar to NLS. See notation.	23b3
recognition of TENEX commands: See recognition=TENEX,	2364
Linking may have bad effects on the jobs of users in: NDNLS, OUTPRC, or other special subsystems; EXEC (TENEX), TNLS, NTNLS, or DNLS are usually safe for linking, Don't connect terminals with Printer, Background, System, or users who are detached	
(DET).	2305
window: See display,	23c
Windowing and DNLS viewing: See viewing.	23d
word-search: "word"=w: an address element that moves you to the next occurrence of that word. If the word is not found in the current statement, the search will go on to the next statement in the hierarchy, and so on to the end of the file. After you use a word search in an ADDRESS, if you want to jump to a subsequent occurrence of that word, use the TAB command. See also:	
TAB=command,	23e
<pre>further goodies== "word"=2ws: The "w" may be preceded by a number N, indicating the Nth occurrence of the word. The search will take place only within N statements if w is followed by a Number N and an "s", The example on the top line would specify: "Jump to the 2nd occurrence of word as a word in this statement</pre>	

only (1 statement is the default if Number is omitted before "s").

23e1

Word: a continuous string of letters and/or numbers. Pointing to any character within the word will serve to point to the word.

Trick: See trick.

word: Backspace Word: BW: The key you type <CTRL-W> to delete (roughly speaking) the word you just typed in, More exactly, to back up through the following types of characters in the order listed: any invisible characters, any punctuation or special characters, and then any numbers and letters. In TNLS, BW will show up typed as a backarrow _ . In DNLS (some DNLS keyboards have a BACK SPACE WORD key which serves for BW) the word simply disappears. Down and up on the two leftmost buttons of the mouse specifies a BW, You may use BW as many times as you like. See also: control=character.

workstation: a human engineered combination of desk, display(s), input and pointing devices, (perhaps integrated telephone and intercom systems, audio input/output devices, micro-film readers) and so forth.

write access to files: the capability of writing on a file. Whether or not other people initially have the capability to write on one of your files varies with the NLS system. At Office-1, initially only you can write on your files. If you want to open files to others for writing, you must use the command Set NLS (protection for files) Public. You may ask the operator to open all files in your directory to a group of co-workers or to all users. In that case, you can protect a particular file with the command Set NLS (protection for files) private. See also: writing, write (CALCULATOR), privacy.

Write (new) File CONTENT OK: The Calculator subsystem command "Write" will create a new file named whatever FILEADDRESS you specify for CONTENT, It will be an exact copy of your Calculator file. The Calculator depends on the information, structure, and format in the Calculator file. It is not possible to use the Calculator if this structure or format has been changed in any way. A new file may be edited in any way you desire. "Write File" also clears the Calculator file of all entries. Therefore any subsequent "Write File" makes a new file containing only those entries since the most previous "Write File". See also: File (CALCULATOR), CONTENT, FILEADDRESS, file.

Writing, creating and modifying information: In NLS, you can create new files, copy all or selected parts of existing files, insert text by typing into existing files, and edit existing text. Access for these operations may be restricted. See also: information.



Use the Insert command to add, duplicate, or create information. See insert,

handling whole files: NLS provides many commands that deal with whole files allowing you to make changes, erase changes made, 23f 23f1

23g

23h

231

231

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23k

23K1

CML:

command. The other is by using the L10 and CML software languages in which NLS is written. The "Process Commands" program does not allow conditional "IF" type functions. With L10, you can write simple content=analyzer patterns for use with FILTERS or you can write whole systems. 231 The Process (commands in) STRUCTURE command: See Process (BASE). 2311 content=analyzer: See content=analyzer. 2312 source=code: See source=code. 2313 L10: programming language See L10. 2314

send files to people, delete them, and transfer files from one directory or site to another, and return to recent files you have

writing programs: Programs are written in the BASE subsystem. There are two ways of writing a program. One is by inserting a list of commands to be processed by the BASE subsystem's Process Commands

Procedures (routines) you can use to write programs: Procedures are sub-routines which can be "called" by any program to do it's thing. See also: Procedure, NLS, xprocs. 2316

x

x Viewspec: show one line and one level only: "Show only one level and one line of each statement." Normally, all levels and lines appear (standard viewspec w); x changes your view to the first line only of top=level statements only. Example: show the first two lines of 3 levels by using the string xbbr. Also, x frequently gives a handy table of contents of a document.

X: x command: See multiply.

accessed.

Updating modifications: See Update.

correcting errors: See correcting.

privacy provisions: See privacy.

commands: See modifying-commands.

Command Meta Language See CML.

XDOC: acronym for external document: (as opposed to a document journalized via the Sendmail Subsystem online). You may reserve XDOC numbers for items that will be indexed in the ARC Catalog 24

24a

24b

2315

23k2

23k3

23k4

23k5

23k6

X

	X	
system, but will not appear as an online file in the Journal also: Numbering (SENDMAIL).	L. See	240
XPROGRAMS: See class=ii.		240
xxx: (for Wheels and Operators only, not documented here): special subsystem of NLS.	a	246

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25

26

26a

y Viewspec: blank line between statements on: "Place a blank line between statements." Invoking viewspec z removes blank lines. 25a

Y

z Viewspec: blank line between statements off: "Don't place a blank line between statements." This turns off viewspec y (blank lines on). This is a default viewspec.

Z







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GLOSSARY

22132 Distribution Kirk E. Kelley, Beverly Boli,