

Meeting Note on your request (25360,)

Doug, just a note to record the outcome of our brief discussion on what was needed to satisfy the request of (25360,). I indicated that I thought that our Mid Contract Status Report for NSW (25181,) and conversations on the phone and in person at the NSW meetings clearly met most of the needs you had for communication of our position on targets to the NSW steering committee. What Col. Mc Govern and General Robins think is controlled by the NSW steering committee over which we have no control. In (25208,) I clearly stated to my staff that they were to arrange their tasks in at least two categories, one, tasks absolutely essential to getting NSW to run and two, goodies desired. They were instructed to concentrate on category one and when finished to move to category two on a best effort basis. You were going to read these although it surprised me that such important docs sent you in the Journal had not been read earlier. We also looked at the accounting info on NSW and I showed you that we were fully charging and that all resources are being paid for and there few if any left (subject of another memo in preparation). This discussion seemed to meet the info needs you had in mind when creating the request and further discussion can follow later as appropriate. Dick

RWW 12-FEB-75 08:53 25365

Meeting Note on your request (25360,)

(J25365) 12-FEB-75 08:53;;; Title: Author(s): Richard W.
Watson/RWW; Distribution: /DCE([INFO-ONLY]); Sub-Collections:
SRI-ARC; Clerk: RWW;

NSW Site Engineers from the Norm Nielsen Group?

Might Carlsen entertain a proposal from the Norm Nielsen group to be
NSW Site Engineers?

DVN 12-FEB-75 09:42 25366

NSW Site Engineers from the Norm Nielsen Group?

(J25366) 12-FEB-75 09:42;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /RWW([ACTION]) RLL([INFO-ONLY]) DCE(
[INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk: DVN;

Home office coordination--additions to my schedule

Thurs 1 pm	1
Demo of DNLS for Jim Lloyd (ARPA=NSW) and another Air Force man--Steve Canton	1a
Thurs 3 pm	2
DNLS beginning lesson (tutorial) for Dr. Licklider of ARPA	2a
Friday 9 am to 5 pm	3
plan to begin the INLS second course for ARPA=NSW at pentagon	3a
[need copies of course outline STRUCTURE & VIEWING]	3a1

JMB 12-FEB-75 10:57 25367

Home office coordination--additions to my schedule

(J25367) 12-FEB-75 10:57;;; Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /UD([INFO-ONLY]) ; Sub-Collections: SRI-ARC UD;
Clerk: JMB;

Contact report: Herman Leon of TRW Systems, visit of 6 Feb 75

(DATE) 6 Feb 75	1
(BY) LIEBERMAN	2
(ATTENDEES)	3
Herman I. Leon of TRW	3a
Douglas Engelbart (DCE) of SRI-ARC	3b
Robert Lieberman (RLL) of SRI-ARC	3c
Phil Whalen of SRI	3d
Dave Myers of SRI	3e
(ADDRESSES) Full name of organization, address, and phone number	4
Leon	4a
Systems Group of TRW INC.	4a1
7600 Colshire Dr.	4a2
McLean, VA 22101	4a3
703-893-2000	4a4
Myers and Whalen	4b
SRI	4b1
Systems Engineering Division	4b2
Systems Evaluation Group	4b3
(MEDIUM) FACE-TO-FACE	5
(WHERE) SRI-ARC Menlo Park, CA	6
(ACTION-ITEMS)	7
None	7a
(DISTRIBUTION) DCE JCN RLL	8
(REFERENCES)	9
(REMARKS)	10

Contact report: Herman Leon of TRW Systems, visit of 6 Feb 75

Herman Leon of TRW, Assistant Operations Manager for Engineering, spent several hours with above attendees. At first he explained his application. Following this we gave a brief overview of our goals and purposes at SRI-ARC. 10a

Only a short ten minutes or so were spent in actually showing him NLS. 10b

TRW Systems has an internally supported project for the development of a Command Center. They have a few subscribers who are interested in this project and have funded TRW to plan out centers for them. 10c

At the moment OSDI (Office of the Assistant Secretary for Defense Intelligence) is their principal supportor, (Henderson of OSDI). 10c1

The FAA will also be buying into this project. 10c2

The Navy has a Tactical Force Command Center (TFCC) planned for the future. This is also an example of a use for this command center service. 10c3

Some contact with RADC intelligence people has been made. 10c4

Their command center is aimed at the decision maker rather than the analyst that backs up the decision makers. 10d

TRW has a prime interest in subjective reaction. Much role playing is considered (at a serious level rather than completely made up one). 10e

The WWMCCS exercising is an example of an end goal. 10e1

This would include preparing briefings and 10e1a

actual on line command/control functions. 10e1b

It is also important for them to improving the content of information the decision makers are given. 10f

The objective is to find out what the information needs of a senior or watch officer are. 10g

One problem is that each is an individual with different format preferences, information needs, etc. 10g1

Another problem is to augment them with little training. 10g2

Contact report: Herman Leon of TRW Systems, visit of 6 Feb 75

This is important if any system is to be accepted, 1092a

Basically, they want a collection of techniques, 10h

so far they are 18 months into this service project, 10i

At the moment they have some software but nothing very advanced. They have two nodes (in the same building at Mclean, VA), one with large screen display. There is another sister installation in Recondo Beach, 10j

They are just getting to conferencing techniques. 10k

They have found a good technique for graphic display, namely having slides projected for graphs and maps with computer generated text, 10l

This was necessary since there is a very strong objection, at moment, to computer generated graphics, 10ll

Another TRW program is called SUDS. It is a natural language input interpreter that learns from its mistakes. This project was mention as possibly one in which we would be interested, 10m

In summary DCE and I thought that the project itself at TRW could be an interesting application for NLS. The distinction between the project using NLS and having NLS as part of their project's product was not easily conveyed, 10n

The prospects of further interest from this group are low, 10o

(DOCUMENTS) Hard copy given and received 11

(GIVEN) Date and documents given 11a

Coordinated Information Services for a Discipline- or Mission-Oriented community (mjournal,12445,) 11a1

The Augmented Knowledge Workshop, (ijournal,14724,) 11a2

The SRI-ARC Workshop Utility Service; What and Why, (jjournal,24031,) 11a3

(RECEIVED) Date and documents received 11b

RLL 12-FEB-75 12:18 25369

Contact report: Herman Leon of TRW systems, visit of 6 Feb 75

(J25369) 12-FEB-75 12:18;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /DCE([INFO-ONLY]) JCN([INFO-ONLY])
; Sub-Collections: ARC-LOG SRI-ARC; Clerk: RLL;

Contact report: Doug Williams of Ames Research Center, visit of 7 Feb 75

(DATE) 7 Feb 75 1

(BY) Lieberman 2

(ATTENDEES) 3

 Doug Williams of Ames 3a

 Robert Lieberman (RLL) of SRI-ARC 3b

(ADDRESSES) Full name of organization, address, and phone number 4

 Doug Williams 4a

 NASA 4a1

 Ames Research Center 4a2

 Mountain View, CA 4a3

(MEDIUM) FACE-TO-FACE 5

(WHERE) SRI-ARC, Menlo Park, CA 6

(ACTION=ITEMS) 7

 None 7a

(DISTRIBUTION) JCN DCE RLL ARC-LOG 8

(REFERENCES) 9

(REMARKS) 10

 At the request of the Long range planning Service of SRI (Gail Murray) I gave a demonstration of the NLS system to Doug Williams from Ames Reseach Center, Life Scienes Division, 10a

 His background is in psychology and his particular application was in the interactions between pilots and their cockpits, 10b

 He was considering the CRT applications to navigational systems, 10c

 some of the problems were that of format on the screen, keyword / full words / phrases / etc, recognition, and different kinds of input devices, 10c1

 Our information handling techniques and service were not of

Contact report: Doug Williams of Ames Research Center, visit of 7 Feb 75

particular interest to him. Any observations made in our study of people using the system were pertinent. I felt that Jim Bair (who also has a psychology background) might be worth talking to.

10d

Unfortunately, I had to leave promptly after an hour. He did not speak to Bair but promised to call back at some unspecified time.

10e

(DOCUMENTS) Hard copy given and received

11

(GIVEN) Date and documents given

11a

(RECEIVED) Date and documents received

11b

RLL 12-FEB-75 12:25 25370

contact report: Doug Williams of Ames research Center, visit of 7 Feb
75

(J25370) 12-FEB-75 12:25;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /ARC-LOG([ACTION]) JCN([INFO-ONLY])
DCE([INFO-ONLY]) ; Sub-Collections: ARC-LOG SRI-ARC; Clerk: RLL;

110 elsewhere

don, could you please answer in writing topic 3 and distribute to me and triolo or if the answers already exist in writing some place where? if any one has additions to the tentative agenda please get them to me and i will add to the list (i have a list of the things we discussed at yesterdays meeting and will soon publish new agenda.

110 elsewhere

12-FEB-75 1314-PST TRIOLO: elf
Distribution: VICTOR, watson
Received at: 12-FEB-75 13:14:34

1

the following is a list of things on which i invite
yor comment. i hope these issues can be resolved
before or during your visit. i also invite you to expand the
list as you see fit.

1a

1. elf system loader
a) corresponding 11 bootstrap

1b

2. elf virtual addr space loader

1c

3. running 110 compiler on decsystem-10
a) jsys vs. uos
b) txt vs. nis input files

1d

4. suitability of current elf tty handlers for fe

1e

5. elf folklore

1f

110 elsewhere

(J25371) 12-FEB-75 15:11;;; Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /DIA([ACTION]) RWW([INFO-ONLY]) JLE([
INFO-ONLY]) CHI([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk:
KEV;

NSW Group Ident Update

The identfile record for the group nsw should be updated to delete
FJN and add JLE and VJT.
--jon.

1

JBP 12-FEB-75 16:20 25372

NSW Group Ident Update

(J25372) 12-FEB-75 16:20;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /MLK([ACTION]) JAKE([INFO-ONLY]) ;
Sub-Collections: SRI-ARC; Clerk: JBP;

property perannual

The property boys have been around and there are still a few items missing. any information relating to these little jewels will be greatly appreciated.

- | | | |
|----|---|----|
| 1. | tape recorder model 230 serial no. 9040 | 1a |
| 2. | tape recorder model 124cs serial no. 29935 | 1b |
| 3. | mouse serial no. 07 | 1c |
| 4. | file cabinet model 18354 serial no. g00109801 | 1d |
| 5. | tape recorder model tc126 serial no. 10372 | 1e |
| 6. | ti terminal model 725 property tag no. g0012045 | 1f |
| 7. | miniture joystick model 2438 | 1g |
| 8. | mouse property tag no. g55190017 | 1h |

SLJ 12-FEB-75 16:41 25374

property perannual

(J25374) 12-FEB-75 16:41;;; Title: Author(s): Sandy L. Johnson/SLJ;
Distribution: /SRI-ARC([ACTION]); Sub-Collections: SRI-ARC; Clerk:
SLJ; Origin: < JOHNSON, AHH,NLS;1, >, 12-FEB-75 16:30 SLJ
; ; ; ; ; ; ; ; ; ;

KEV 12-FEB-75 16:54 25375

discussion topics for my adr trip

sent via sndmsg to vic triolo. please tell me about anything else
you would like to see discussed.

discussion topics for my adr trip

vic, i've added some things to the list of discussion topics you sent me, see you thursday, ken 1

1. elf system loader 1a
 - a) corresponding 11 bootstrap 1a1
2. elf virtual addr space loader 1b
3. running 110 compiler on decsystem-10 1c
 - a) jsys vs. uuos 1c1
 - b) txt vs. nls input files 1c2
4. suitability of current elf tty handlers for fe 1d
5. elf folklore 1e
6. how adr releases new elfs 1f
7. buffer management 1g
8. current core estimates 1h
9. integrating adr and arc work procedures 1i

KEV 12-FEB-75 16:54 25375

discussion topics for my adr trip

(J25375) 12-FEB-75 16:54;;; Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /NPG([INFO-ONLY]) RWW([INFO-ONLY]) ;
Sub-Collections: SRI-ARC NPG; Clerk: KEV; Origin: < VICTOR,
ADGENDA,NLS;1, >, 12-FEB-75 16:40 KEV ;;;;####;

copy of sdmsg to roetter = ckm journal

13-FEB-75 0728-PST BECK: Connie needs help; she's losing her journal mail

Distribution: FEEDBACK AT OFFICE=1, roetter
Received at: 13-FEB-75 07:28:39

1

Connie McLindon has been deleting her initial file at office=1, on the assumption that when she has sendmail the system will create a new one. She says that the last thing she did a week ago was delete a "partial copy". Today she went to her initial file to read mail she had been told was delivered; she got the message "PC does not exist". The file displayed is a very old version of her initial file, where has all her mail gone. Please advise her (and send a copy to me @office=1); my knowledge of the logic of journal mail delivery and partial copies is shaky in this area. Incidentally, the new mail has not been going into this version of the file. Susan, I've sent you a cc to alert you to the message in feedback. Thanks, Jeanne B.

1a

SGR 13-FEB-75 08:36 25376

copy of sdmsg to roetter - ckm journal

(J25376) 13-FEB-75 08:36;;; Title: Author(s): Susan Gail
Roetter/SGR; Distribution: /FEED([ACTION]); Sub-Collections:
SRI-ARC; Clerk: SGR;

copy of message to roetter = new dirs

13-FEB-75 0805-PST NORTON: new of-1 dirs placko request

Distribution: ROETTER, norton

Received at: 13-FEB-75 08:05:09

1

Hmm here's a late action on a request Mike sent to me last week
ugh, Can you get them set up? Thanks Jim

1a

3-FEB-75 1023-PST *PLACKO: OFFICE-1 Directories for Packet Radio
Project

Distribution: NORTON, placko, fralick at sri-al

received at: 3-FEB-75 10:23:35

Jim,

As a result of discussions with with Bob Kahn I'd like to
request

the

following two directories on Office-1 for the Packet Radio
Project,

They would be allocated from Carlson's NSW slots.

Directory name: FRALICK

IDENT: SCF

Account:

Password: SCF

Disk pages: 300

Allocation group: ?

Default protection: 770000

Person's name: Fralick, Stanley C.

Address: SRI

Phone: 326-6200 x3279

Organization: SRI/PRWG

Function: Project Leader of Packet Radio Project at SRI

Directory name: PRSETD

IDENT: PRSETD

Account:

Password: PRSETD

Disk pages: 300

Allocation group: ?

Default protection: 770000

Person's name: Allan, Daniel S.

Address: SRI

Phone: 326-6200 x3636

Organization: SRI/PRWG

Function: Packet Radio Project Systems Engineer and
Technical

Director

-- Mike

1b

SGR 13-FEB-75 08:37 25377

copy of message to roetter - new dirs

(J25377) 13-FEB-75 08:37;;; Title: Author(s): Susan Gail
Roetter/SGR; Distribution: /FEED([ACTION]) ; Sub-Collections:
SRI-ARC; Clerk: SGR;

Please Add Rita Hysmith to DIRT

Marcia, Please add Rita Hysmith (Jordan) (JR) to DIRT....Thanks

1

DVN 13-FEB-75 09:08 25378

Please Add Rita Hysmith to DIRT

(J25378) 13-FEB-75 09:08;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /MLK([ACTION]) JOAN([ACTION] dirt
notebook please) DIRT([INFO-ONLY]) ; Sub-Collections: SRI-ARC DIRT;
Clerk: DVN;

Notes about running L10 compiler on DECsystem=10

About running L10 compiler on DECsystem=10

We have a version of L10's library package that worked on our 10/40 system. It should work with either L10 or L1011 on a 10/50 with no or little fixing up. We need access to a 10/50 to check it out.

The input to such a compiler would be text (.TXT) files and not NLS files. The TENEX version of L10 and L1011 will take either NLS or text files.

The output from a 10/50 based compiler would look the same as a TENEX based compiler. The REL files could be loaded with DEC loader on the 10/50 system and (L10) run and debugged providing 10/50 I/O packages were inserted with it, OR (L1011) loaded and saved. I think the only way to format the saved files for loading on the PDP-11 is on a TENEX via SAVBIN.

DEC 10/50 UUC's can be inserted in the L10 code as instructions provided they are defined at the front of the file with the SET command. For example

```
SET OPEN=50B, chnout=1;
```

```
...
```

```
IF NOT SKIP !OPEN chnout,fildes THEN GOTO blah;
```

DIA 13-FEB-75 10:15 25379

Notes about running L10 compiler on DECsystem-10

(J25379) 13-FEB-75 10:15;;; Title: Author(s): Don I. Andrews/DIA;
Distribution: /KEV([ACTION]) RWW([INFO_ONLY]) ; Sub-Collections:
SRI-ARC; Clerk: DIA;

Thoughts on IBM Evaluation of NLS

Duane, I just read your document on the IBM NLS evaluation (31828,) and have the following off the top of my head comments.

- 1) Task I can not be done without their really studying both NLS and how we do our work and programming. Better if they actually programmed with us. Just studying manuals is no guarantee that they would see immediately how to use NLS at methodology level. I would say that some IBMers would have to spend some time here and work with us for a while. This would involve our time and require some funds for consulting training etc for us.
- 2) Creating the COBOL support processor for the NSW type environment for task II would be good. It might be required that the person doing at least the first part of the study live here for a while. Given our present limited resources heavily committed to NSW until July, what is the estimated start date? I thought they were going to use NLS to do the SP documentation, what happened? Without our being able to have close contact with them I have little confidence that anything useful or really valid will result. The reason is not just parochial, NLS really presents a very different world from anything that is in the IBM experience and to ask some cat from an African tribe to evaluate Jeeps for hunting requires quite a bit of acculturation before it would make any sense.

RWW 13-FEB-75 10:27 25380

Thoughts on IBM Evaluation of NLS

(J25380) 13-FEB-75 10:27;;; Title: Author(s): Richard W.
Watson/RWW; Distribution: /DLS([ACTION]) DCE([INFO-ONLY]) JCN([
INFO-ONLY]) HGL([INFO-ONLY]) EKM([INFO-ONLY]) ;
Sub-Collections: SRI-ARC; Clerk: RWW;

ARC-LOG now in operation; send pertinent items.

TO: DCE JCN RLL

1

According to the our agreement, please send all SNDMSGs and JOURNAL items pertinent to events, visits, demonstrations, trips, phone calls, personnel whereabouts, etc. to ARC-LOG. This name is the same for both the directory and the journal ident. Thank you.

2

All are encouraged to look at the file in <ARC-LOG,ALOG,> for the latest information. The file is divided into four basic branches:

3

INPUT - for incoming messages via SNDMSG

3a

JOURNAL - for incoming journal items

3b

SCHEDULE - to store items relevant to future and past events, visits, trips, and personnel schedules

3c

REPORTS - items that are reports, notes, minutes of trips, visits, phone calls, etc.

3d

Suggestions on methods of handling this information service are welcomed. THANK YOU.

4

ARC-LOG 13-FEB-75 10:33 25381

ARC-LOG now in operation; send pertinent items.

(J25381) 13-FEB-75 10:33;;; Title: Author(s): James C. Norton, Log
Augmentation/ARC-LOG; Distribution: /DCE([ACTION]) JCN([ACTION])
RL([ACTION]) ; Sub-Collections: ARC-LOG; Clerk; ALOG;

Suggested Changes to Output Processor User's Guide

I just finished using Dean's output processor user's guide. I think it is excellent, but I have noted a few changes that may be needed. See (panko,output-guide,).

suggested Changes to Output Processor User's Guide

(J25382) 13-FEB-75 10:49;;; Title: Author(s): Raymond R.
Panko/RA3Y; Distribution: /NDM([ACTION]) JCN([INFO-ONLY]) JHB([
INFO-ONLY]) SGR([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk:
RA3Y;

FE - WM interface notes from COMPASS

11-FEB-75 14:23:43,5551

Date: 11 FEB 1975 1423-PST

From: SATTLEY

Subject: FE Programming

To: IRBY

cc: MILLSTEIN at BBN-TENEXB

Charles:

Greetings, since neither of us was at the meeting, we're supposed to talk to each other. I hope I'll have reached you by phone by the time you read this, but in any case... I'm sending copies of two files which I've started building, for the purposes of discussion among ourselves here, and with you. Neither of them is in CML yet, but I'm working at it.

The first file is a list of white boxes from Millstein. They are intentionally basic, and will no doubt be extended. Specifically, they contain nothing about tool suspension or resumption, since that has become a grey area we have to discuss -- if the FE can handle suspension, resumption, slewing, on its own, the WM doesn't care (except perhaps for restart information??); if not, Bob will be happy to discuss new white boxes as you require them. He expects to talk to you about it soon, anyhow.

The second file is even sketchier: it's the "skeleton" of a simple (-minded) BNF description of user-typed commands to the FE, and is intended just to provide lists to look at. After more talk between us, and more thinking on my part, I'll be writing them in CML (?) -- or maybe I'll be trying to understand your rewritings into CML. I don't really know how to think about display terminals, in any case.

Here's the first file:

FE - WM interface notes from COMPASS

00100		TUE 11 FEB 75	14
00200	WHITE BOXES, PRELIMINARY LIST		15
00300			16
00400	>>>>>>>>>Connection:		17
00500			18
00600	LOGIN(Project, Nodename, Password)		19
00700	--> Userid (integer)		20
00800	Profile (Node-relative + person-relative)		21
00900	Systemmessage (Bodily)		22
01000	HaveMail (boolean)		23
01100			24
01200	LOGOUT(Userid)		25
01300	--> Cost		26
01400			27
01500	REATTACHIONSW(project, Nodename, Password, Tool(s)(?))		28
01600	--> (as for LOGIN)		29
01700			30
01800	>>>>>>>>>Tool running:		31
01900			32
02000	RUNtool(Userid, Toolname, [Filespec], [Qhelp])		33
02100	% Qhelp if called from tool, see below		34
02200	--> Tool-process-handle (integer)		35
02300	Tool-grammar		36
02400			37

FE - WM interface notes from COMPASS

02500	ENDtooluse(Userid,(Tooluse=name process=handle))	38
02600	--> Cost	39
02700		40
02800	>>>>>>>>>Files, no movement:	41
02900		42
03000	SHOW(Userid, Filespec)	43
03100	--> Full-NSW-File-Name-List	44
03200		45
03300	DELETE(Userid, Filespec)	46
03400	--> Full NSW File name (of deleted file)	47
03500		48
03600	RENAME(Userid, Filespec, Filename)	49
03700	--> Full NSW File Name (old file)	50
03800	Full NSW File Name (new file)	51
03900		52
04000	UNSETSEMAPHORE(Userid, Filespec)	53
04100		54
04200	>>>>>>>>>Files, movement:	55
04300		56
04400	COPY(Userid, Filespec, Filename)	57
04500	--> Full NSW File Name (source file)	58
04600	Full NSW File Name (destination)	59
04700		60
04800	EXPORT(Userid, Filespec, Externalname)	61
04900	--> Full NSW File name (source file)	62

FE - WM interface notes from COMPASS

05000		63
05100	IMPORT(Userid, Externalname, Filename)	64
05200	--> Full NSW File Name (destination)	65
05300		66
05400	TRANSFER(Userid, Externalname, Externalname) (= Call FTP)	67
05410		68
05500	>>>>>>>>Calls from tools:	69
05510		70
05600	TPH: Tool Process Handle	71
05700	{...	
05800	ode: Pointer to the Interactive Tool Descriptor,	72
05850	for referencing attributes of, or required for,	73
05900	files used or produced by the tool,	74
06000	Qhelp: A boolean to indicate whether HELP returns	75
06200	are to be referred to FE or not,	76
06400	OPEN(TPH, Inputcode, Filespec, Qhelp)	77
06500	--> Local File Name (Of the copy at the TBH)	78
06600	Full NSW File Name (of the transmitted file)	79
06700		80
06800	DELIVER(TPH, Outputcode, Localfilename, Filename, Qhelp)	81
06900	--> Full NSW File Name (Extension of 'Filename' argument	82
07000	under which delivered copy filed)	83
07100		84
07200	WARRANT(TPH, Attributecode, NSWfilename, Qhelp)	85
		86

FE - WM interface notes from COMPASS

07300	--> {No return, except possible error conditions	87
		88
		89
	And here's the second:	90
		91
00100	SKELETAL SKETCH OF FE GRAMMAR IN BNF	92
00150		93
00200	CONVENTIONS: Basically BNF, not CML,	94
00300	UPPER CASE -- TYPED BY USER	95
00400	lower case -- typed by fe	96
00450	% Comment %	97
00500	< Construction, not literal >	98
00600	[Optional, may be omitted]	99
00700	{ Repeated, 0 or more times	100
00800	(For grouping of alternatives)	101
00900	Separates alternatives	102
01000	special characters 'single quoted' when in construction,	103
01100		104
01150	Login, Logout, Move:	105
01175		106
01200	NSW 'CR'	107
01300	project name: <PROJECT-NAME> 'CR'	108
01400	node name: <NODE-NAME> 'CR'	109
01500	password: <PASSWORD> 'CR' % no echo %	110

FE - WM interface notes from COMPASS

01550		111
01600	LOGOUT QUICK 'CR' LOGOUT 'CR'	112
01650		113
01700	MOVE login to node name <NODE=NAME>	114
01800		115
01850	Tools:	116
01900	RUN tool <TOOLNAME> ['('FILESPEC')'] 'CR'	117
02000		118
02100	File commands:	119
02150		120
02200	COPY file <FILESPEC> 'cr' to be named <FILENAME>	121
02300	COPYIN source <PATHNAME> 'cr' to be named <FILENAME>	122
02400	COPYOUT file <FILESPEC> 'cr' to destination <PATHNAME>	123
02450	TRANSFER source <PATHNAME> to destination <PATHNAME>	124
02500	RENAME file <FILESPEC> 'cr' to be named <FILENAME>	125
02600	DELETE [ALL] <FILESPEC>	126
02700	SHOW names <FILESPEC>	127
02800	PRINT <FILESPEC>	128
02900	UNSEMAPHORE <FILESPEC>	129
03000		130
03100	<FILENAME> ::= <Id> {,<Id>	131
03200		132
03300	<FILESPEC> ::= <Id>{,<Id> '...' <i><id></i> {,<Id> ['/' <i><id></i> {,<Id>	133
03400		134

FE - WM interface notes from COMPASS

03500 <PATHNAME> ::= % ARPA Path Name + Password | Account Nr., etc. 135
%

136

137

If we haven't talked by phone before you see this, feel free to call either me or Millstein for discussion. I'll be in the office every afternoon this week, and, I trust, Millstein will be at home. Cheers, Kirk Sattley

137a

138

JBP 13-FEB-75 11:23 25383

FE - WM interface notes from COMPASS

(J25383) 13-FEB-75 11:23;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /NSW([INFO-ONLY]) NPG([INFO-ONLY]) ;
Sub-Collections: SRI-ARC NSW NPG; Clerk: JBP;

Phone Log, 13 Feb 75: Max Beere re TRW interest in Utility service

Max Beere just called. He was with TYMSHARE during our early negotiations to set up OFFICE-1, and has remained interested since moving to TRW. He visited here last year with some TRW people just to check further. In today's call he said that he thinks he has found a group of technical writers that look promising (I believe that they are proposal generators).

1

I explained the current picture of services, costs, architects, etc. Recommended his considering technical documentation as for a large project, rather than as for a proposal-generation group -- a particular reason being that the latter wouldn't seem to qualify them for ARPANET use, while exploratory application within a large DOD contract would.

2

I think that he'd like to bring one or more people by for another visit -- perhaps delve more heavily into different candidate types of application possibilities. I mentioned that Jim Norton might consider inviting them by for some time next week that the KWAC meeting might have an "open" session, where interested non-architects might participate -- that could be a very good eye-opener for them. I told him that Jim (or Robert, perhaps) would give him a call soon, for whatever kind of get-together was mutually agreeable. Max's phone: (213) 475-6777.

3

DCE 13-FEB-75 12:44 25384

Phone Log, 13 Feb 75: Max Beere re TRW interest in Utility service

(J25384) 13-FEB-75 12:44;;; Title: Author(s): Douglas C.
Engelbart/DCE; Distribution: /JCN([ACTION]) ARC-LOG([INFO-ONLY])
; Sub-Collections: SRI-ARC ARC-LOG; Clerk: DCE;

How's the Service Way up There?

For the last three weeks, our customers using the ARPA-NET have been getting bad service. Communication tends to be "bursty" and they are getting disconnected. We think the troubles are in the net, but I thought we should find out how your service has been the last three weeks or so. Any abnormal problems?

Thanks for the message. I was about to call you about this when I collected the message. Yes I'm alive and well, and any day now I will find out what my job is going to be. So far they have given me a broom and dust pan, but Jim says I have room to advance. I am looking forward to the KWACers convention, although I have no formal role in it. As a matter of fact, people have been very careful not to tell me anything about it. It's no secret; it's just that nobody knows what is happening. I am looking forward to meeting Ynez.

Again, if there is anything I can do down here to help you, please let me know. Bye.

RA3Y 13-FEB-75 13:19 25385

How's the Service Way up There?

(J25385) 13-FEB-75 13:19;;; Title: Author(s): Raymond R.
PanKo/RA3Y; Distribution: /LHD([ACTION]) RA3Y([INFO-ONLY]) ;
Sub-Collections: SRI=ARC; Clerk: RA3Y;

Update to NSW Group Ident

please add to the group NSW the idents for Jim Lloyd (JBLL) and Ron
Uhlig (RPU).
--jon,

JBP 13-FEB-75 13:28 25386

Update to NSW Group Ident

(J25386) 13-FEB-75 13:28;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /MLK([ACTION]) JAKE([INFO-ONLY]) ;
Sub-Collections: SRI=ARC; Clerk: JBP;

USESTATS User Statistics subsystem: FY74 account numbers

```

FILE cusestats % (CML,) TO (meyer,usestats,cml,) % 1
% DECLARATIONS % 1a
  DECLARE PARSEFUNCTION 1a1
    answ, % reads answer construct % 1a1a
    answer, % for questions - returns 0/1 % 1a1b
    lookstat, %looks for s and shows status for substitute 1a1c
    command%
    sp, % reads next char, TRUE if space % 1a1d
    readconfirm, % reads next char if ca % 1a1e
    myrdconfirm, % reads next char if ca; with variations for 1a1f
    HELP %
    dumprompt, 1a1g
    readbug, % reads next char if BUG % 1a1h
    readoption, % TRUE if next char is optchar % 1a1i
    readrepeat, % TRUE if next char is repeat % 1a1j
    lookansw, % TRUE if next char is Y/CA % 1a1k
    sublockansw, % TRUE if next char is Y/CA with variations for 1a1l
    substitute command%
    lookconfirm, % TRUE if next char is CA/REPEAT/INSERT % 1a1m
    lookbug, % TRUE if next char is BUG % 1a1n
    mylookbug, % TRUE if next char is BUG; with variations for 1a1o
    HELP %
    lookback, % TRUE if next char is -; for HELP % 1a1p
    looknum, % TRUE if next char is a number % 1a1q
    lookrpt, % TRUE if next char is rpt; for HELP % 1a1r
    prmptlssel, % prompt for an LSEL % 1a1s
    prmptdssel, % prompt for an DSEL % 1a1t

```


USESTATS User Statistics subsystem: FY74 account numbers

```

prmtssel,    % prompt for an SSEL %                1a1u
notca;       % reads next char, TRUE iff not CA char
%                                                    1a1v
DECLARE COMMAND WORD                                1a2
"BRANCH" = 1 ,                                     1a2a
"GROUP" = 2 ,                                       1a2b
"PLEX" = 3 ,                                        1a2c
"STATEMENT" = 4 ,                                   1a2d
"CHARACTER" = 5 ,                                   1a2e
"CONTROLCHAR" = 6 ,                                 1a2f
"INVISIBLE" = 7 ,                                   1a2g
"LINK" = 8 ,                                        1a2h
"DIRECTORY" = 9 ,                                   1a2i
"PASSWORD" = 10 ,                                   1a2j
"NUMBER" = 11 ,                                     1a2k
"TEXT" = 12 ,                                       1a2l
"VISIBLE" = 13 ,                                    1a2m
"WORD" = 14 ,                                       1a2n
"FILE" = 15 ,                                       1a2o
"NEWFILELINK" = 16 ,                                 1a2p
"OLDFILELINK" = 17 ,                                 1a2q
"NAME" = 18 ,                                       1a2r
"IDENT" = 19 ,                                       1a2s
"IDENTLIST" = 20 ,                                   1a2t
"EDGE" = 21 ,                                       1a2u

```

USESTATS User Statistics subsystem: FY74 account numbers

"MARKER" = 22 ,	1a2v
"NLS" = 23 ,	1a2w
"ITEM" = 24 ,	1a2x
"ITEMNOVS" = 25 ,	1a2y
"SUCCESSOR" = 26 ,	1a2z
"PREDECESSOR" = 27 ,	1a2a@
"UP" = 28 ,	1a2aa
"DOWN" = 29 ,	1a2ab
"HEAD" = 30 ,	1a2ac
"TAIL" = 31 ,	1a2ad
"END" = 32 ,	1a2ae
"BACK" = 33 ,	1a2af
"NEXT" = 34 ,	1a2ag
"ORIGIN" = 35 ,	1a2ah
"FILERETURN" = 36 ,	1a2ai
"RETURN" = 37 ,	1a2aj
"FILENAME" = 38 ,	1a2ak
"FIRSTNAME" = 39 ,	1a2al
"NEXTNAME" = 40 ,	1a2am
"EXTNAME" = 41 ,	1a2an
"FIRSTCONTENT" = 42 ,	1a2ao
"NEXTCONTENT" = 43 ,	1a2ap
"FIRSTWORD" = 44 ,	1a2aq
"NEXTWORD" = 45 ,	1a2ar
"DETACHED" = 46 ,	1a2as

USESTATS User Statistics subsystem: FY74 account numbers

"TTY" = 47 ,	1a2at
"AUTO" = 48 ,	1a2au
"CONTINUE" = 49 ,	1a2av
"ON" = 50 ,	1a2aw
"RECOVER" = 51 ,	1a2ax
"SLINKER" = 52 ,	1a2ay
"UPDATE" = 53 ,	1a2az
"CLEAR" = 54 ,	1a2b@
"IDENTIS" = 55 ,	1a2ba
"FILES" = 56 ,	1a2bb
"DELETE" = 57 ,	1a2bc
"DEFERRED" = 58 ,	1a2bd
"IMMEDIATE" = 59 ,	1a2be
"NOT" = 60 ,	1a2bf
"PREVENT" = 61 ,	1a2bg
"RESET" = 62 ,	1a2bh
"ARCHIVE" = 63 ,	1a2bi
"SEQUENTIAL" = 64 ,	1a2bj
"TWO" = 65 ,	1a2bk
"JUSTIFIED" = 66 ,	1a2bl
"ASSEMBLER" = 67 ,	1a2bm
"BOTH" = 68 ,	1a2bn
"UNDELETE" = 69 ,	1a2bo
"FOR" = 70 ,	1a2bp
"STATUS" = 71 ,	1a2bq

USESTATS User Statistics subsystem: FY74 account numbers

"TAPE" = 72 ,	1a2br
"ACCOUNT" = 73 ,	1a2bs
"NO" = 74 ,	1a2bt
"VERSIONS" = 75 ,	1a2bu
"EXTENSION" = 76 ,	1a2bv
"DATE" = 77 ,	1a2bw
"CREATION" = 78 ,	1a2bx
"LAST" = 79 ,	1a2by
"FIRST" = 80 ,	1a2bz
"READ" = 81 ,	1a2c@
"WRITE" = 82 ,	1a2ca
"DUMP" = 83 ,	1a2cb
"EVERYTHING" = 84 ,	1a2cc
"LENGTH" = 85 ,	1a2cd
"MISCELLANEOUS" = 86 ,	1a2ce
"ACCESSES" = 87 ,	1a2cf
"PROTECT" = 88 ,	1a2cg
"SIZE" = 89 ,	1a2ch
"TIME" = 90 ,	1a2ci
"VERBOSE" = 91 ,	1a2cj
"SORT" = 92 ,	1a2ck
"BYTESIZE" = 93 ,	1a2cl
"ARCHIVED" = 94 ,	1a2cm
"ALL" = 95 ,	1a2cn
"MODIFICATIONS" = 96 ,	1a2co

USESTATS User Statistics subsystem: FY74 account numbers

"UPPER" = 97 ,	1a2cp
"LOWER" = 98 ,	1a2cq
"MODE" = 99 ,	1a2cr
"SENDMAIL" = 100 ,	1a2cs
"BUSY" = 101 ,	1a2ct
"QUICKPRINT" = 102 ,	1a2cu
"JOURNAL" = 103 ,	1a2cv
"PRINTER" = 104 ,	1a2cw
"COM" = 105 ,	1a2cx
"TERMINAL" = 106 ,	1a2cy
"REMOTE" = 107 ,	1a2cz
"REST" = 108 ,	1a2d@
"CASE" = 109 ,	1a2da
"CONTENT" = 110 ,	1a2db
"TEMPORARY" = 111 ,	1a2dc
"VIEWSPECS" = 112 ,	1a2dd
"EXTERNAL" = 113 ,	1a2de
"TO" = 114 ,	1a2df
"PRIVATE" = 115 ,	1a2dg
"PUBLIC" = 116 ,	1a2dh
"TENEX" = 117 ,	1a2di
"ALLOW" = 118 ,	1a2dj
"EXECUTE" = 119 ,	1a2dk
"APPEND" = 120 ,	1a2dl
"LIST" = 121 ,	1a2dm

USESTATS User Statistics subsystem: FY74 account numbers

"SET" = 122 ,	1a2dn
"SELF" = 123 ,	1a2do
"FORBID" = 124 ,	1a2dp
"DISK" = 125 ,	1a2dq
"DEFAULT" = 126 ,	1a2dr
"OLD" = 127 ,	1a2ds
"NEW" = 128 ,	1a2dt
"COMPACT" = 129 ,	1a2du
"RENAME" = 130 ,	1a2dv
"ADD" = 131 ,	1a2dw
"SUBTRACT" = 132 ,	1a2dx
"MULTIPLY" = 133 ,	1a2dy
"DIVIDE" = 134 ,	1a2dz
"RIGHT" = 135 ,	1a2e@
"LEFT" = 136 ,	1a2ea
"ACTION" = 137 ,	1a2eb
"AUTHORS" = 138 ,	1a2ec
"COMMENT" = 139 ,	1a2ed
"EXPEDITE" = 140 ,	1a2ee
"HARDCOPY" = 141 ,	1a2ef
"INFORMATION" = 142 ,	1a2eg
"INSERT" = 143 ,	1a2eh
"KEYWORDS" = 144 ,	1a2ei
"OBSOLETES" = 145 ,	1a2ej
"RFC" = 146 ,	1a2ek

USESTATS User Statistics subsystem: FY74 account numbers

"SUBCOLLECTIONS" = 147 ,	1a2e1
"TITLE" = 148 ,	1a2em
"UNRECORDED" = 149 ,	1a2en
"L10" = 150 ,	1a2eo
"PROCEDURE" = 151 ,	1a2ep
"SEQGENERATOR" = 152 ,	1a2eq
"BUFFER" = 153 ,	1a2er
"NDDT" = 154 ,	1a2es
"PARSERULE" = 155 ,	1a2et
"CA" = 156 ,	1a2eu
"CD" = 157 ,	1a2ev
"RPT" = 158 ,	1a2ew
"BC" = 159 ,	1a2ex
"BW" = 160 ,	1a2ey
"BS" = 161 ,	1a2ez
"LITESC" = 162 ,	1a2f@
"IGNORE" = 163 ,	1a2fa
"SC" = 164 ,	1a2fb
"SW" = 165 ,	1a2fc
"TAB" = 166 ,	1a2fd
"IMLAC" = 167 ,	1a2fe
"TI" = 168 ,	1a2ff
"NVT" = 169 ,	1a2fg
"EXECUPORT" = 170 ,	1a2fh
"MENU" = 171 ,	1a2fi

USESTATS User Statistics subsystem: FY74 account numbers

"DNLS" = 172 ,	1a2fj
"TNLS" = 173 ,	1a2fk
"COMMAND" = 174 ,	1a2fl
"RULE" = 175 ,	1a2fm
"SUBSYSTEM" = 176 ,	1a2fn
"DISPLAY" = 177 ,	1a2fo
"FROZEN" = 178 ,	1a2fp
"HLPCOM" = 179 ,	1a2fq
"PROGRAM" = 180 ,	1a2fr
"TERSE" = 181 ,	1a2fs
"INDENTING" = 182 ,	1a2ft
"UNIVERSAL" = 183 ,	1a2fu
"ENTRY" = 184 ,	1a2fv
"INCLUDE" = 185 ,	1a2fw
"BOTTOM" = 186 ,	1a2fx
"PAGE" = 187 ,	1a2fy
"OFF" = 188 ,	1a2fz
"FULL" = 189 ,	1a2g@
"PARTIAL" = 190 ,	1a2ga
"ANTICIPATORY" = 191 ,	1a2gb
"DEMAND" = 192 ,	1a2gc
"FIXED" = 193 ,	1a2gd
"CONTROL" = 194 ,	1a2ge
"CURRENTCONTEXT" = 195 ,	1a2gf
"FEEDBACK" = 196 ,	1a2gg

USESTATS User Statistics subsystem: FY74 account numbers

"HERALD" = 197 ,	1a2gh
"PRINTOPTIONS" = 198 ,	1a2gi
"PROMPT" = 199 ,	1a2gj
"RECOGNITION" = 200 ,	1a2gk
"STARTUP" = 201 ,	1a2gl
"LEVELADJUST" = 202 ,	1a2gm
"REVERSE" = 203 ,	1a2gn
"TEST" = 204 ,	1a2go
"TASKER" = 205 ,	1a2gp
"LINEPROCESSOR" = 206 ,	1a2gq
"CENTER" = 207 ,	1a2gr
"CNTLG" = 208 ;	1a2gs
% COMMON RULES %	1b
% ENTITY DEFINITIONS %	1b1
editentity = textent / structure;	1b1a
% TEXT ENTITY DEFINITIONS %	1b2
textent = text1 / "TEXT" / "LINK" / "NUMBER";	1b2a
text1 = "CHARACTER" / "WORD" / "VISIBLE" / "INVISIBLE";	1b2b
% STRUCTURE ENTITY DEFINITIONS %	1b3
structure = "STATEMENT" / notstatement;	1b3a
notstatement = "GROUP" / "BRANCH" / "PLEX" ;	1b3b
% SWITCH %	1b4
switch = ("ON"! 1!/"OFF"!2 L2!);	1b4a
% DEVICE TYPES %	1b5
devopt =	1b5a

USESTATS User Statistics subsystem: FY74 account numbers

```

( "TASKER"!L2!                                     1b5a1
/ "TI" <"Terminal">                                1b5a2
/ "NVT"                                              1b5a3
/ "LINEPROCESSOR"                                  1b5a4
/ "IMLAC"                                           1b5a5
/ "EXECUPORT"                                       1b5a6
/ "33-TTY"! 33!                                     1b5a7
/ "35-TTY"! 35!                                     1b5a8
/ "37-TTY"! 37! );                                  1b5a9

```

SUBSYSTEM usestats KEYWORD "USESTATS" 1c

INITIALIZATION 1c1

uinit = 1c1a

useinit(); 1c1a1

COMMAND 1c2

uconvert = 1c2a

"CONVERT" <"and total"> 1c2a1

("FACT" <"File at"> 1c2a2

source = DSEL("#STATEMENT") 1c2a2a

CONFIRM 1c2a2b

xconvfact (source) 1c2a2c

/"SEQUENTIAL" <"Fact File"> 1c2a3

source = LSEL("#OLDFILELINK") 1c2a3a

<"Insert Branch at"> dent = DSEL("#STATEMENT") 1c2a3b

level = LEVADJ 1c2a3c

CONFIRM 1c2a3d

USESTATS User Statistics subsystem: FY74 account numbers

```

        xconvsfact (source,dent,level)                                1c2a3e
    ) ;                                                                1c2a4
COMMAND                                                                1c3
    utotal =                                                            1c3a
        "TOTAL" "BRANCH" <"at">                                       1c3a1
        source = DSEL("#STATEMENT")                                     1c3a2
        CONFIRM                                                         1c3a3
        xttotal(source) ;                                             1c3a4
COMMAND                                                                1c4
    uextract =                                                            1c4a
        "EXTRACT"!L2! "GROUP" <"Name">                                 1c4a1
        ent = LSEL("#WORD")                                           1c4a2
        <"for Weeks">                                                 1c4a3
        source = DSEL("#GROUP")                                        1c4a4
        CLEAR <"Insert Branch at">                                     1c4a5
        dent = DSEL("#STATEMENT")                                     1c4a6
        level = LEVADJ                                               1c4a7
        CONFIRM                                                         1c4a8
        xextgrp (dent, level, ent, source) ;                          1c4a9
END.                                                                    1c5
FINISH                                                                    1d
FILE lusestats % (L10,) TO (meyer, usestats,subsys,) %              2
% globals %                                                            2a
    DECLARE sixty[2], hundred[2], cpuacc[2], conacc[2], cputot[2],
    contot[2] ;                                                         2a1

```

USESTATS User Statistics subsystem: FY74 account numbers

```

DECLARE                                2a2
    namlen = 16,                        2a2a
    datlen = 10,                        2a2b
    timlen = 12;                        2a2c
DECLARE STRING date[100] ;             2a3
(useinit) PROCEDURE (result, parsemode); 2b
    REF result ;                        2b1
    CASE parsemode OF                  2b2
        = parsing:                     2b2a
            BEGIN                       2b2a1
                nfloat("60", ssixty, ssixty+1) ; 2b2a2
                nfloat("100", shundred, shundred+1) ; 2b2a3
            END;                         2b2a4
        ENDCASE;                        2b2b
    RETURN (&result);                  2b3
END,                                     2b4
(xtotal) PROCEDURE (result, parsemode, wkbranch); 2c
    LOCAL indent ;                     2c1
    REF result, wkbranch ;              2c2
    CASE parsemode OF                  2c3
        = parsing:                     2c3a
            BEGIN                       2c3a1
                % compute indentation adjustment % 2c3a2
                indent = 3 * (3 - getlev(wkbranch)) ; 2c3a2a
                totalbr (wkbranch, indent) ; 2c3a3
    
```


USESTATS User Statistics subsystem: FY74 account numbers

```

% done %                                2c3a4
    IF nmode=fulldisplay THEN alldsp() ; 2c3a4a
END;                                       2c3a5
ENDCASE;                                  2c3b
RETURN (&result);                          2c4
END,                                       2c5
(xconvfact) PROCEDURE (result, parsemode, file, stid, levadj) ; 2d
LOCAL astid, level, jfn ;                 2d1
LOCAL TEXT POINTER fptr1, fptr2, fptr3, fptr4, fptr5, fptr6 ; 2d2
LOCAL STRING line[2000] ;                 2d3
REF result, file, stid, levadj ;          2d4
CASE parsemode OF                          2d5
    = parsing;                              2d5a
        BEGIN                                2d5a1
            level = levadj ;                 2d5a2
            % open input file %             2d5a3
            lnbfls(&file,0, sline) ;        2d5a3a
            IF NOT jfn = lgetjfn (0, sline, stxttext, gtjoisf, 2d5a3b
                slit)
                THEN SIGNAL (ofilerr, slit) ; 2d5a3b1
            IF NOT sysopen (jfn, read, chrtyp, slit) THEN 2d5a3c
                BEGIN                          2d5a3c1
                    reljfn (jfn) ;           2d5a3c2
                    SIGNAL (ofilerr, slit) ; 2d5a3c3
                END;                            2d5a3c4

```

USESTATS User Statistics subsystem: FY74 account numbers

```

% get date %                                2d5a4
  LOOP %header%                              2d5a4a
    BEGIN                                    2d5a4a1
      IF NOT isread (jfn, sline, LF) THEN    2d5a4a2
        BEGIN                                2d5a4a2a
          dismes (1, s"Invalid format for Fact File"); 2d5a4a2b
          RETURN (&result) ;                2d5a4a2c
        END;                                  2d5a4a2d

        IF FIND SF(*line*) SNP "TENEX SUMMARY SHEET FOR PAY
        PERIOD " 1sUL (./TRUE) 1sSP 1sD 1sSP "THRU" 1sSP
        ^fptr1 SUL ^fptr2 (./TRUE) sSP ^fptr3 1sD ^fptr4
        1sSP ("19"/TRUE) ^fptr5 1sD ^fptr6 THEN    2d5a4a3

          BEGIN                                2d5a4a3a
            *date* _ fptr1 fptr2 ;            2d5a4a3b
            date,L _ MIN(date,L, 3) ;        2d5a4a3c
            *date* _ fptr3 fptr4, '=', *date*, '=', fptr5
            fptr6 ;                            2d5a4a3d
          EXIT LOOP;                          2d5a4a3e
          END;                                  2d5a4a3f
        END;                                  2d5a4a4
  % get week's total %                        2d5a5
    LOOP                                       2d5a5a
      BEGIN                                    2d5a5a1
        IF NOT isread (jfn, sline, LF) THEN EXIT LOOP ; 2d5a5a2
        IF FIND SF(*line*) SNP ^fptr1 "TOTAL" ^fptr2 THEN
        EXIT LOOP ;                            2d5a5a3
        FIND SF(*line*) SNP ^fptr1 Sg(*line*) SNP ^fptr2 >
        ;                                       2d5a5a4

```

USESTATS User Statistics subsystem: FY74 account numbers

```

*line* _ fptr1 fptr2 ;                                2d5a5a5
END;                                                    2d5a5a6
stconv (fptr1) ;                                       2d5a5b
SI fptr1 fptr2 _ "Week ending" ; %6 more chars than
"TOTAL" so should line up columns just right%        2d5a5c
FIND SF(*line*) "fptr1 SE(*line*) "fptr2 > ;        2d5a5d
astid _ cinssta (stid, level, sfptr1, sfptr2) ;      2d5a5e
% process each account %                               2d5a6
level = -1 ;                                           2d5a6a
LOOP                                                    2d5a6b
    BEGIN                                              2d5a6b1
        %place account statements%                   2d5a6b2
        LOOP                                          2d5a6b2a
            BEGIN                                      2d5a6b2a1
                IF NOT isread (jfn, sline, LF) THEN EXIT LOOP
                2 ; %header%                           2d5a6b2a2
                IF FIND SF(*line*) SNP "fptr1 "ACCOUNT:"
                "fptr2 THEN EXIT LOOP ;               2d5a6b2a3
            END;                                       2d5a6b2a4
            acct (fptr1) ;                               2d5a6b2b
            FIND SF(*line*) "fptr1 SE(*line*) "fptr2 > ; 2d5a6b2c
            stid _ astid _ cinssta (astid, level, sfptr1,
            sfptr2) ;                                   2d5a6b2d
            level = -1 ;                                 2d5a6b2e
        %move directories under it%                   2d5a6b3
        LOOP                                          2d5a6b3a
            BEGIN                                      2d5a6b3a1

```

USESTATS User Statistics subsystem; FY74 account numbers

```

                IF NOT isread (jfn, sline, LF) THEN EXIT LOOP
                2 ;                                          2d5a6b3a2

                IF FIND SF(*line*) sNP "fptr1 "USER" "fptr2
                THEN EXIT LOOP ;                               2d5a6b3a3

                END;                                          2d5a6b3a4

        LOOP                                              2d5a6b3b

                BEGIN                                          2d5a6b3b1

                IF NOT isread (jfn, sline, LF) THEN EXIT LOOP
                2 ;                                          2d5a6b3b2

                IF FIND SF(*line*) sNP ("TOTAL"/ENDCHR) THEN
                EXIT LOOP;                                     2d5a6b3b3

                IF FIND sF(*line*) sNP ("*USER ID CODE"/D)
                THEN REPEAT LOOP;                             2d5a6b3b4

                FIND SF(*line*) sNP "fptr1 SE(*line*) sNP
                "fptr2 >;                                     2d5a6b3b5

                stid = cinssta (stid, level, sfptri, sfptri2)
                ;                                             2d5a6b3b6

                level = 0 ;                                     2d5a6b3b7

                END;                                          2d5a6b3b8

                level = 0 ;                                     2d5a6b3c

                %convert account branch%                       2d5a6b4

                convtot (astid) ;                               2d5a6b4a

                END;                                          2d5a6b5

                % done %                                       2d5a7

                IF nmode=fulldisplay THEN alldsp() ;         2d5a7a

                END;                                          2d5a8

        ENDCASE;                                           2d5b

        RETURN (&result);                                     2d6

```


USESTATS User Statistics subsystem: FY74 account numbers

```

END. 2d7
(xconvfact) PROCEDURE (result, parsemode, file) ; 2e
LOCAL stid, astid, level ; 2e1
LOCAL TEXT POINTER fptr1, fptr2, fptr3, fptr4, fptr5, fptr6 ; 2e2
REF result, file ; 2e3
CASE parsemode OF 2e4
  = parsing: 2e4a
    BEGIN 2e4a1
      % get date % 2e4a2
        stid = file ; 2e4a2a
        stid, stpsid = origin ; 2e4a2b
        stid = getsub(stid) ; 2e4a2c
        IF NOT FIND SF(stid) "TENEX SUMMARY SHEET FOR PAY
        PERIOD " 1$UL ('./TRUE) 1$SP 1$D 1$SP "THRU" 1$SP
        "fptr1 sUL "fptr2 ('./TRUE) sSP "fptr3 1$D "fptr4 1$SP
        ("19"/TRUE) "fptr5 1$D "fptr6 THEN 2e4a2d
          BEGIN 2e4a2d1
            dismes (1, s"Invalid format for Fact File"); 2e4a2d2
            RETURN (&result) ; 2e4a2d3
          END; 2e4a2d4
        *date* = fptr1 fptr2 ; 2e4a2e
        date,L = MIN(date,L, 3) ; 2e4a2f
        *date* = fptr3 fptr4, '=', *date*, '=', fptr5 fptr6 ; 2e4a2g
      % get week's total % 2e4a3
        fptr1 = stid ; 2e4a3a
        LOOP 2e4a3b

```

USESTATS User Statistics subsystem: FY74 account numbers

```

BEGIN                                                    2e4a3b1
IF FIND SF(fp1) "fp1 "TOTAL" "fp2 THEN EXIT
LOOP ;                                                  2e4a3b2
stid = (fp1 := getsuc(fp1)) ;                            2e4a3b3
cdelgro (stid, stid, 0, 0) ;                             2e4a3b4
END;                                                    2e4a3b5
stconv (fp1) ;                                          2e4a3c
ST fp1 fp2 = "Week ending" ; %6 more chars than
"TOTAL" so should line up columns just right%        2e4a3d
level = -1 ;                                           2e4a4
astid = stid = fp1 ;                                    2e4a5
LOOP % process each account %                          2e4a6
BEGIN                                                  2e4a6a
%place account statements%                             2e4a6b
fp1 = getsuc(stid) ;                                    2e4a6b1
LOOP                                                  2e4a6b2
BEGIN                                                  2e4a6b2a
IF FIND SF(fp1) "fp1 "ACCOUNT:" "fp2 THEN
EXIT LOOP ;                                            2e4a6b2b
IF FIND SF(fp1) "fp1 SP ENDCHR THEN                  2e4a6b2c
    IF (fp2=getsub(fp1)) # fp1                        2e4a6b2c1
        THEN cmovsta(fp1,0,fp2,0,0);                 2e4a6b2c1a
fp2 = (fp1 := getsuc(fp1)) ;                          2e4a6b2d
cdelgro (fp2, fp2, 0, 0) ;                             2e4a6b2e
IF fp1.stpsid=origin THEN EXIT LOOP 2 ;              2e4a6b2f
END;                                                  2e4a6b2g

```

USESTATS User Statistics subsystem: FY74 account numbers

```

        acct (fptr1) ;                                2e4a6b3
        astid = cmovsta (astid, level, fptr1, 0,0) ; 2e4a6b4
        level = 0 ;                                  2e4a6b5
%move directories under it%                          2e4a6c
        fptr1 = getsuc(stid) ;                       2e4a6c1
        LOOP                                         2e4a6c2
            BEGIN                                     2e4a6c2a
                IF FIND SF(fpstr1) "USER" THEN EXIT LOOP ; 2e4a6c2b
                fptr1 = getsuc(fpstr1) ;             2e4a6c2c
            END;                                       2e4a6c2d
        fptr1 = fptr2 = fptr3 = getsuc(fpstr1) ;     2e4a6c3
        LOOP                                         2e4a6c4
            BEGIN                                     2e4a6c4a
                IF FIND SF(fpstr2) ("TOTAL"/NP) THEN EXIT LOOP ; 2e4a6c4b
                fptr2 = getsuc(fpstr3_fpstr2) ;     2e4a6c4c
            END;                                       2e4a6c4d
        cmovgro (astid, -1, fptr1, fptr3, 0,0) ;    2e4a6c5
%convert account branch%                              2e4a6d
        convtot (astid) ;                            2e4a6d1
        END;                                         2e4a6e
% done %                                             2e4a7
        IF nmode=fulldisplay THEN alldsp() ;      2e4a7a
        END;                                         2e4a8
    ENDCASE;                                         2e4b
RETURN (&result);                                  2e5

```

USESTATS User Statistics subsystem: FY74 account numbers

```

END, 2e6
(xextgrp) PROCEDURE (result, parsemode, where, levadj, grp,
weeks); 2f
    LOCAL level, stid, cpy ; 2f1
    LOCAL TEXT POINTER eptr1, eptr2, eptr3, eptr4 ; 2f2
    LOCAL STRING grpstr[50] ; 2f3
    REF result, where, levadj, grp, weeks ; 2f4
    CASE parsemode OF 2f5
        = parsing: 2f5a
            BEGIN 2f5a1
                % get grpstr % 2f5a2
                eptr1 = grp; eptr1[1] = grp[1]; 2f5a2a
                eptr2 = grp[2]; eptr2[1] = grp[3]; 2f5a2b
                *grpstr* = eptr1 eptr2 ; 2f5a2c
                astruc(sgrpstr) ; 2f5a2d
                % get dates % 2f5a3
                eptr1 = weeks ; 2f5a3a
                eptr3 = weeks[2] ; 2f5a3b
                IF NOT FIND SF(eptr1) [D] "eptr1 _eptr1 SPT "eptr2
                SF(eptr3) [D] "eptr3 _eptr3 SPT "eptr4 THEN 2f5a3c
                    BEGIN 2f5a3c1
                        dismes (1, s"invalid format in Weeks") ; 2f5a3c2
                        RETURN (FALSE) ; 2f5a3c3
                    END ; 2f5a3c4
                *date* = *grpstr*, sp, eptr1 eptr2, " thru ", eptr3
                eptr4 ; 2f5a3d

```


USESTATS User Statistics subsystem: FY74 account numbers

```

        FIND SF(*date*) "eptr3 SE(*date*) "eptr4 > ;                2f5a3e
        eptr2 = stid = cinssta (where, levadj, septr3, septr4)
        ;                                                            2f5a3f
% COPY all branches under new statement %                            2f5a4
        level = -1 ;                                                2f5a4a
        LOOP %for each week (eptr1)%                                  2f5a4b
            BEGIN                                                    2f5a4b1
                IF (cpy = getsub(eptr1)) = eptr1 THEN                2f5a4b2
                    BEGIN                                            2f5a4b2a
                        dismes (1, s"No groups in Week") ;          2f5a4b2b
                        RETURN (FALSE) ;                              2f5a4b2c
                    END ;                                            2f5a4b2d
                LOOP %find group%                                     2f5a4b3
                    BEGIN                                            2f5a4b3a
                        IF FIND SF(cpy) *grpstr* SP THEN EXIT LOOP; 2f5a4b3b
                        IF getft1(cpy) THEN                            2f5a4b3c
                            BEGIN                                    2f5a4b3c1
                                dismes (1, s"Group not in Week") ; 2f5a4b3c2
                                RETURN (FALSE) ;                    2f5a4b3c3
                            END ;                                    2f5a4b3c4
                        cpy = getsuc(cpy) ;                            2f5a4b3d
                    END;                                             2f5a4b3e
                stid = ccopgro (stid, level, cpy, cpy, 0,0) ;        2f5a4b4
                level = 0;                                           2f5a4b5
                IF eptr1=weeks[2] OR getft1(eptr1) THEN EXIT LOOP; 2f5a4b6

```

USESTATS User Statistics subsystem: FY74 account numbers

```

        LOOP %find next week%                                2f5a4b7
            BEGIN                                            2f5a4b7a
                eptr1 = getsuc(eptr1) ;                      2f5a4b7b
                IF FIND SF(eptr1) "Week" THEN EXIT LOOP ;   2f5a4b7c
                IF eptr1=weeks[2] OR getftl(eptr1) THEN EXIT  2f5a4b7d
                LOOP 2;
            END;                                             2f5a4b7e
        END;                                               2f5a4b8
    % total branch %                                       2f5a5
        totalbr (eptr2,6) ;                                2f5a5a
    % done %                                               2f5a6
        IF nmode=fulldisplay THEN alldsp() ;              2f5a6a
    END;                                                    2f5a7
ENDCASE;                                                  2f5b
RETURN (&result);                                        2f6
END,                                                       2f7
% Support Routines %                                     2g
(totalbr) PROCEDURE (brch, add);                          2g1
    LOCAL TEXT POINTER tptr1, tptr2, tptr3, tptr4, tptr5, tptr6  2g1a
    ;
    LOCAL STRING tname[50], tepustr[25], tconstr[25], tratio[25]  2g1b
    ;
    IF NOT FIND SF(brch) "tptr1 UL ["- 2(D)] SD ($SP "thru" ["-  2g1c
    2(D)] SD / TRUE) "tptr2
    THEN                                                    2g1c1
        BEGIN                                              2g1c1a
            dismes (1, s"Improper format in Branch title") ;  2g1c1b

```

USESTATS User Statistics subsystem: FY74 account numbers

```

        RETURN (FALSE);                                2g1c1c
    END                                                2g1c1d
ELSE                                                  2g1c2
    BEGIN                                             2g1c2a
        *tname* = tptr1 tptr2 ;                      2g1c2b
        strlen ($tname, namlen+datlen+add, 1) ;      2g1c2c
    END;                                              2g1c2d
IF (tptr3 = getsub(tptr1)) = tptr1 THEN              2g1d
    BEGIN                                             2g1d1
        dismes (1, $"No members in Branch") ;      2g1d2
        RETURN (TRUE);                               2g1d3
    END;                                              2g1d4
% initialize variables %                             2g1e
    nfloat($"0", sputot, sputot+1) ;                 2g1e1
    nfloat($"0", scontot, scontot+1) ;               2g1e2
LOOP % add up cpu and con tmes %                     2g1f
    BEGIN                                             2g1f1
        IF (NOT FIND SF(tptr3) UL [','] < SPT *tptr3 > SPT *tptr4
            [','] < SPT *tptr5 > SPT *tptr6)          2g1f2
            THEN                                       2g1f2a
                BEGIN                                   2g1f2a1
                    ST tptr3 = "#bad* ", SF(tptr3) SE(tptr3) ; 2g1f2a2
                END                                     2g1f2a3
            ELSE                                       2g1f2b
                BEGIN                                   2g1f2b1

```

USESTATS User Statistics subsystem: FY74 account numbers

```

      % cpu %
      *tcpustr* = tptr3 tptr4 ;
      nfloat(stcpustr, scpuacc, scpuacc+1) ;
      qcadd (scputot, scpuacc) ;
      % con %
      *tconstr* = tptr5 tptr6 ;
      nfloat(stconstr, sconacc, sconacc+1) ;
      qcadd (scontot, sconacc) ;
      END;
IF getft1 (tptr3) THEN EXIT LOOP ;
tptr3 = getsuc(tptr3) ;
END;
% rebuild statement %
% cpu %
qfloutp (scputot, stcpustr, 0) ;
FIND SF(*tcpustr*) SNP "tptr3 Sg(*tcpustr*) SNP "tptr4
> ;
*tcpustr* = tptr3 tptr4 ;
strlen (stcpustr, timlen, 2) ;
% con %
qfloutp (scontot, stconstr, 0) ;
FIND SF(*tconstr*) sNP "tptr3 SE(*tconstr*) sNP "tptr4
> ;
*tconstr* = tptr3 tptr4 ;
strlen (stconstr, timlen, 2) ;
% ratio %

```


USESTATS User Statistics subsystem: FY74 account numbers

```

        getratio (stratio, seputot, scontot) ;                2g1g3a
        strlen (stratio, timlen, 2) ;                        2g1g3b
        ST tptr1 = *tname*, *tcpustr*, *tConstr*, *tratio* ; 2g1g4
RETURN (TRUE);                                             2g1h
END.                                                       2g1i
(acct) PROCEDURE (stid) ;                                  2g2
LOCAL TEXT POINTER aptr1, aptr2 ;                          2g2a
LOCAL STRING anum[100] ;                                   2g2b
IF NOT FIND SF(stid) [D] "aptr1 _aptr1 sD "aptr2 THEN    2g2c
RETURN;
*anum* = aptr1 aptr2 ;                                     2g2d
CASE VALUE(sanum) OF                                       2g2e
    = 1, =10:      ST stid = "SYSTEM" ;                    2g2e1
    = 3:           ST stid = "NIC" ;                        2g2e2
    = 20:          ST stid = "TYMSHARE" ;                   2g2e3
    = 30:          ST stid = "ARC" ;                        2g2e4
    = 35:          ST stid = "SRI" ;                       2g2e5
    = 40, =43:    ST stid = "RADC" ;                       2g2e6
    = 45:          ST stid = "BRL" ;                       2g2e7
    = 46:          ST stid = "NSRDC" ;                     2g2e8
    = 50:          ST stid = "BELL" ;                      2g2e9
    = 60, =70, =700: ST stid = "ENERGY" ;                 2g2e10
    = 80:          ST stid = "ARPA" ;                      2g2e11
    = 90:          ST stid = "NSA" ;                       2g2e12
ENDCASE           ST stid = "ACCOUNT";                    2g2e13

```

USESTATS User Statistics subsystem: FY74 account numbers

```

ST stid = SF(stid) SE(stid), " (" , *anum* , * ) ;           2g2f
RETURN;                                                       2g2g
END,                                                           2g2h
(convtot) PROCEDURE (struc);                                   2g3
LOCAL stid ;                                                 2g3a
LOCAL TEXT POINTER xcptr1, xcptr2 ;                           2g3b
LOCAL STRING total[200], cpustr[20], constr[20],             2g3c
ratiostr[20], datstr[20] ;
% initializations %                                          2g3d
  nfloat("$0", scpuacc, scpuacc+1) ;                           2g3d1
  nfloat("$0", sconacc, sconacc+1) ;                           2g3d2
% reformat group %                                           2g3e
  IF (stid_getsub(struc)) # struc THEN                         2g3e1
  LOOP                                                         2g3e2
    BEGIN                                                       2g3e2a
      stconv (stid) ;                                           2g3e2b
      IF getft1(stid) THEN EXIT LOOP;                           2g3e2c
      stid = getsuc(stid) ;                                       2g3e2d
    END;                                                         2g3e2e
% insert total %                                             2g3f
  IF FIND SF(struc) "xcptr1 s(UL/SP) ('( SD ') /< SSP >)"    2g3f1
  "xcptr2
    THEN *total* = xcptr1 xcptr2                                2g3f1a
    ELSE *total* = "GROUP TOTAL" ;                               2g3f1b
  *datstr* = *date* ;                                           2g3f2
  qfloutp (scpuacc, scpustr, 0) ;                               2g3f3

```

USESTATS User Statistics subsystem: FY74 account numbers

```

IF FIND SF(*cpustr*) "xcptr1 1$NP "xcptr2 THEN ST xcptr1
xcptr2 = NULL ; 2g3f4

qfloutp (sconacc, sconstr, 0) ; 2g3f5

IF FIND SF(*constr*) "xcptr1 1$NP "xcptr2 THEN ST xcptr1
xcptr2 = NULL ; 2g3f6

% ratio % 2g3f7

    getratio (sratiostr, scpuacc, sconacc) ; 2g3f7a

strlen (stotal, namlen+3, 1) ; 2g3f8

strlen (sdatstr, datlen, 2) ; 2g3f9

strlen (scpustr, timlen, 2) ; 2g3f10

strlen (sconstr, timlen, 2) ; 2g3f11

strlen (sratiostr, timlen, 2) ; 2g3f12

ST struc = *total*, *datstr*, *cpustr*, *constr*,
*ratiostr* ; 2g3f13

RETURN ; 2g3g

END, 2g3h

(stconv) PROCEDURE (stid) ; 2g4

% declarations % 2g4a

    LOCAL stncpu[2], stncon[2] ; 2g4a1

    LOCAL TEXT POINTER stptr1, stptr2, stptr3, stptr4,
stptr5, stptr6 ; 2g4a2

    LOCAL STRING stcpu[50], stcon[50], stnam[50], stdat[50],
stratio[50] ; 2g4a3

% parse statement % 2g4b

    IF NOT FIND 2g4b1

        SF(stid) "stptr1 SPT "stptr2 2g4b1a

        [':] < CH 1s(D) "stptr3 > [':] [':] SSP 1s(D) "stptr4 2g4b1b

```

USESTATS User statistics subsystem: FY74 account numbers

```

        [':] < CH 1s(D) "stptr5 > [':] [':] $$P 1s(D) "stptr6 2g4b1c
THEN                                          2g4b2
        BEGIN                                2g4b2a
        ST stid = "*bad* ", SF(stid) SE(stid) ; 2g4b2b
        RETURN;                              2g4b2c
        END;                                 2g4b2d
        *stnam* = stptr1 stptr2 ;           2g4b3
        *stdat* = *date* ;                   2g4b4
        *stcpu* = stptr3 stptr4 ;           2g4b5
        *stcon* = stptr5 stptr6 ;           2g4b6
        *stratio* = NULL ;                  2g4b7
% convert numbers %                          2g4c
        IF NOT convadd (sstcpu, scpuacc, sstncpu) THEN 2g4c1
            *stcpu* = "*bad*" ;             2g4c1a
        IF NOT convadd (sstcon, sconacc, sstncon) THEN 2g4c2
            *stcon* = "*bad*" ;             2g4c2a
% ratio %                                    2g4d
        getratio (sstratio, sstncpu, sstncon) ; 2g4d1
% rebuild statement %                        2g4e
        strlen (sstnam, namlen, 1) ;         2g4e1
        strlen (sstdat, datlen, 2) ;         2g4e2
        strlen (sstcpu, timlen, 2) ;         2g4e3
        strlen (sstcon, timlen, 2) ;         2g4e4
        strlen (sstratio, timlen, 2) ;      2g4e5
        ST stid = *stnam*, *stdat*, *stcpu*, *stcon*, *stratio* ; 2g4e6

```


USESTATS User Statistics subsystem: FY74 account numbers

```

RETURN;                                     2g4f
END,                                         2g4g
(getratio) PROCEDURE (str, cpuarr, conarr) ; 2g5
% declarations %                           2g5a
LOCAL ratarr[2] ;                          2g5a1
LOCAL TEXT POINTER rptr1, rptr2 ;          2g5a2
REF str, cpuarr, conarr ;                  2g5a3
% ratio %                                   2g5b
ccdivw (&cpuarr, &conarr, sratarr) ;       2g5b1
ccmult (sratarr, shundred) ;               2g5b2
qf1outp (sratarr, &str, 0) ;               2g5b3
FIND SF(*str*) SNP "rptr1 SE(*str*) SNP "rptr2 > ; 2g5b4
*str* _ rptr1 rptr2, 45B ;                 2g5b5
RETURN;                                     2g5c
END,                                         2g5d
(conydd) PROCEDURE (str, accum, num) ;      2g6
% declarations %                           2g6a
LOCAL tnum[2] ;                             2g6a1
LOCAL TEXT POINTER nptr1, nptr2, nptr3, nptr4, nptr5, 2g6a2
nptr6;
LOCAL STRING numstr[20] ;                  2g6a3
REF str, accum, num ;                      2g6a4
IF NOT FIND SF(*str*) "nptr1 1s(D) "nptr2 " : sSP "nptr3 2g6b
1s2(D) "nptr4 " : SSP "nptr5 1s2(D) "nptr6 THEN RETURN(FALSE)
;
% seconds %                                2g6c

```

USESTATS User Statistics subsystem: FY74 account numbers

```

    *numstr* = nptr5 nptr6 ;                               2g6c1
    nfloat(snumstr, snum, snum+1) ;                       2g6c2
    qcdivw (snum, ssixty, snum) ;                         2g6c3
% minutes %                                              2g6d
    *numstr* = nptr3 nptr4 ;                               2g6d1
    nfloat(snumstr, stnum, stnum+1) ;                   2g6d2
    qcadd (snum, stnum) ;                                 2g6d3
    qcdivw (snum, ssixty, snum) ;                       2g6d4
% hours %                                               2g6e
    *numstr* = nptr1 nptr2 ;                             2g6e1
    nfloat(snumstr, stnum, stnum+1) ;                   2g6e2
    qcadd (snum, stnum) ;                                 2g6e3
% add to accum %                                        2g6f
    qcadd (&accum, snum) ;                               2g6f1
% replace number %                                     2g6g
    qfloutp (snum, snumstr, 0) ;                         2g6g1
    FIND SF(*numstr*) SNP *nptr1 SE(*numstr*) *nptr2 > ; 2g6g2
    *str* = nptr1 nptr2 ;                                 2g6g3
RETURN(TRUE) ;                                          2g6h
END,                                                     2g6i
(strlen) PROCEDURE (astr, length, just); %sets string whose
address is passed to length passed by truncating and adding
spaces, optionally left (1) or right (2) justified%    2g7
LOCAL TEXT POINTER lptr ;                               2g7a
REF astr ;                                              2g7b
length = MIN (length, astr.M) ;                         2g7c

```

USESTATS User Statistics subsystem: FY74 account numbers

```

IF astr,L > length THEN                                2g7d
  BEGIN                                                  2g7d1
    astr,L = length + 1 ;                               2g7d2
    FIND SE(*astr*) [NP] SNP "lptr > ;                2g7d3
    astr,L = lptr[1] - 1 ;                              2g7d4
  END;                                                  2g7d5
FOR lptr = astr,L + 1 UP UNTIL > length DO             2g7e
  CASE just OF                                         2g7e1
    =1: *astr*[lptr] = SP;                             2g7e1a
    =2: *astr* = SP, *astr* ;                          2g7e1b
  ENDCASE EXIT LOOP ;                                  2g7e1c
RETURN;                                                2g7f
END,                                                    2g7g
FINISH                                                  2h

```

NDM 13-FEB-75 16:41 25387

USESTATS User statistics subsystem: FY74 account numbers

(J25387) 13-FEB-75 16:41;;; Title: Author(s): N. Dean Meyer/NDM;
Distribution: /JCN([INFO-ONLY]) RA3Y([INFO-ONLY]) JCP([
INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk: NDM; Origin: <
MEYER, USESTATS.NLS:30, >, 28-JAN-75 17:08 NDM ;;; #####

Nicnotes-2/75

This is to inform all network liaison that the hostname USC-ISIA has been changed back to USC-ISI per request of ARPA. Please make the necessary changeover.

1

.....

2

NIC SERVICES

3

ONLINE LISTS

4

Since there are many new liaison and hosts on the network, I would like to point out to the new people that there are currently three files maintained by the NIC available for FTP from OFFICE-1 (Host 43 dec, 53 oct,) by network users. These are:

4a

<NETINFO>HOSTS.TXT

4a1

An ASCII text file that lists official ARPA Hostnames. (see RFC 625). This file is updated each week if new information is received. It is available via FTP to any Arpanet user. Each Liaison is responsible for seeing that its local hostname table uses these names.

4a1a

If new hosts are added to the Network at your facility please notify Jake Feinler (FEINLER@SRI-ARC) as to what the new hostname will be.

4a1a1

<NETINFO>LIAISON.TXT

4a2

An ASCII text file that lists for each technical Liaison his name, U. S. mail address, network mailbox address, phone, and the host(s) for which the listed individual is liaison. Several people have modified their own copy of this file to produce mailing labels.

4a2a

<NETINFO>LIAISON-SNDMSG.TXT

4a3

A list of known network mailbox addresses of the technical Liaison suitable for use as a sndmsg group distribution list.

4a3a

In the near future we hope to receive a copy of the Network Principal Investigators from ARPA. This will be made into lists similar to the Technical Liaison lists mentioned above, and will be available for all to use. A separate notice will be sent out when this is available.

4b

ONLINE RFCs

5

All current RFCs are maintained as text files in the directory <NETINFO> at OFFICE-1 (Decimal 43) and can be FTPd by using the pathname <NETINFO>RFCnnnn.txt where nnnn = the appropriate RFC number. Persons wishing to be notified each time an RFC is received and posted in <NETINFO> should notify Jon Postel (POSTEL@SRI-ARC) and request to be put on the RFC notification list.

5a

RFCs issued since June 1974 are maintained online by the NIC for at least 21 days from the date of last access. This is a long enough time to allow most interested parties to obtain a copy. If an RFC is not accessed for 21 days, it is automatically archived and must be retrieved by Jon Postel (POSTEL@SRI-ARC) or Jake Feinler (FEINLER@SRI-ARC) via sndmsg request.

5a1

RFCs issued before June 1974 are not available online mainly because many of them were never entered online in the first place. The NIC has master copies of most old RFCs, and we are currently investigating ways to make them more readily available in hardcopy form to Arpanet users.

5a2

CURRENT NETWORK PROTOCOLS

6

A hardcopy version of the ARPA Network Current Network protocols can now be obtained from the U. S. Dept. of Commerce, National Technical Information Service (NTIS), 5285 port Royal Road, Springfield, Va, 22161, or from the Defense Documentation Center (DDC), Cameron Station, Alexandria, Va, 22314. This document contains current network protocols in use as of Dec. 1, 1974. Its order number is: AD A003890, \$12.25 for hardcopy and \$2.25 for microfiche.

6a

NOTE: Unfortunately this volume does not contain the latest version of BBN 1822. The latest 1822 can be obtained from Carol Kidston of BBN (KIDSTON@BBN).

6a1

RESOURCE HANDBOOK

7

The hardcopy version of the resource Handbook is limping along, but progressing. Each SERVER host will be given a chance to peruse its write-up briefly before going to press. We will not be able to do major rewrites, but will try to change wrong data and minor inconsistencies. Another memo on this topic will be issued soon.

7a

The online NIC/QUERY version of the Resource Handbook is available at OFFICE-1. To access connect to OFFICE-1, then type:

7b

Nicnotes-2/75

```
[@]login nicquest arpa <SP><CR>
[@]nic <CR>
```

7b1

NOTE: The same guest account can be used for FTP purposes.
It cannot, however, be used to access NLS at OFFICE-1.

7b1a

The online version of the Resource Handbook is also being updated,
but it will be awhile before it is current.

7c

ARPANET DIRECTORY

8

Arpanet users who need extra copies of the June 1974 Arpanet
Directory may obtain them from Jake Feinler (FEINLER@SRI-ARC). A
new hardcopy directory is slated to follow the hardcopy Resource
Handbook.

8a

NOTIFYING USERS OF NIC SERVICES

9

The Liaison are currently the channel by which Network users are
notified of NIC services. I am aware that this is not an adequate
distribution mechanism, but hope that all of you will do what you
can to inform users at your hosts that the above services are
available.

9a

Nicnotes-2/75

(J25388) 13-FEB-75 16:54;;; Title: Author(s): Elizabeth J. (Jake)
Feinler/JAKE; Distribution: /ACM([INFO-ONLY]); Sub-Collections:
SRI-ARC; Clerk: JAKE; Origin: < FEINLER, NICNOTES-2/75,NLS:11,
>, 13-FEB-75 16:43 JAKE ;;;;####;

USESTATS User Statistics subsystem: FY75 account numbers

```

FILE cusestats % (CML,) TO (meyer,usestats,cml,) %           1
% DECLARATIONS %                                           1a
  DECLARE PARSEFUNCTION                                     1a1
    answ,          % reads answer construct %              1a1a
    answer,        % for questions - returns 0/1 %         1a1b
    lookstat,      %looks for s and shows status for substitute 1a1c
    command%
    sp,           % reads next char, TRUE if space %       1a1d
    readconfirm,  % reads next char if ca %                 1a1e
    myrdconfirm,  % reads next char if ca; with variations for 1a1f
    HELP %
    dumprompt,    %                                     1a1g
    readbug,      % reads next char if BUG %                1a1h
    readoption,   % TRUE if next char is optchar %         1a1i
    readrepeat,   % TRUE if next char is repeat %          1a1j
    lookansw,     % TRUE if next char is Y/CA %             1a1k
    sublookansw,  % TRUE if next char is Y/CA with variations for 1a1l
    substitute command%
    lookconfirm,  % TRUE if next char is CA/REPEAT/INSERT % 1a1m
    lookbug,      % TRUE if next char is BUG %              1a1n
    mylookbug,    % TRUE if next char is BUG; with variations for 1a1o
    HELP %
    lookback,     % TRUE if next char is _; for HELP %     1a1p
    looknum,      % TRUE if next char is a number %        1a1q
    lookrpt,      % TRUE if next char is rpt; for HELP %   1a1r
    prmptisel,    % prompt for an LSEL %                   1a1s
    prmptdsel,    % prompt for an DSEL %                   1a1t

```

USESTATS User Statistics subsystem: FY75 account numbers

```

prmtssel,  % prompt for an sSEL %                1a1u
notca;      % reads next char, TRUE iff not CA char
%                                                  1a1v
DECLARE COMMAND WORD                               1a2
"BRANCH" = 1 ,                                   1a2a
"GROUP" = 2 ,                                    1a2b
"PLEX" = 3 ,                                     1a2c
"STATEMENT" = 4 ,                               1a2d
"CHARACTER" = 5 ,                               1a2e
"CONTROLCHAR" = 6 ,                             1a2f
"INVISIBLE" = 7 ,                               1a2g
"LINK" = 8 ,                                    1a2h
"DIRECTORY" = 9 ,                               1a2i
"PASSWORD" = 10 ,                               1a2j
"NUMBER" = 11 ,                                  1a2k
"TEXT" = 12 ,                                   1a2l
"VISIBLE" = 13 ,                                1a2m
"WORD" = 14 ,                                   1a2n
"FILE" = 15 ,                                   1a2o
"NEWFILELINK" = 16 ,                            1a2p
"OLDFILELINK" = 17 ,                            1a2q
"NAME" = 18 ,                                   1a2r
"IDENT" = 19 ,                                  1a2s
"IDENTLIST" = 20 ,                              1a2t
"EDGE" = 21 ,                                   1a2u

```

USESTATS User Statistics subsystem: FY75 account numbers

"MARKER" = 22 ,	1a2v
"NLS" = 23 ,	1a2w
"ITEM" = 24 ,	1a2x
"ITEMNOVS" = 25 ,	1a2y
"SUCCESSOR" = 26 ,	1a2z
"PREDECESSOR" = 27 ,	1a2a@
"UP" = 28 ,	1a2aa
"DOWN" = 29 ,	1a2ab
"HEAD" = 30 ,	1a2ac
"TAIL" = 31 ,	1a2ad
"END" = 32 ,	1a2ae
"BACK" = 33 ,	1a2af
"NEXT" = 34 ,	1a2ag
"ORIGIN" = 35 ,	1a2ah
"FILERETURN" = 36 ,	1a2ai
"RETURN" = 37 ,	1a2ej
"FILENAME" = 38 ,	1a2ak
"FIRSTNAME" = 39 ,	1a2al
"NEXTNAME" = 40 ,	1a2am
"EXTNAME" = 41 ,	1a2an
"FIRSTCONTENT" = 42 ,	1a2ao
"NEXTCONTENT" = 43 ,	1a2ap
"FIRSTWORD" = 44 ,	1a2aq
"NEXTWORD" = 45 ,	1a2ar
"DETACHED" = 46 ,	1a2as

USESTATS User Statistics subsystem: FY75 account numbers

"TTY" = 47 ,	1a2at
"AUTO" = 48 ,	1a2au
"CONTINUE" = 49 ,	1a2av
"ON" = 50 ,	1a2aw
"RECOVER" = 51 ,	1a2ax
"SLINKER" = 52 ,	1a2ay
"UPDATE" = 53 ,	1a2az
"CLEAR" = 54 ,	1a2ba
"IDENTS" = 55 ,	1a2ba
"FILES" = 56 ,	1a2bb
"DELETE" = 57 ,	1a2bc
"DEFERRED" = 58 ,	1a2bd
"IMMEDIATE" = 59 ,	1a2be
"NOT" = 60 ,	1a2bf
"PREVENT" = 61 ,	1a2bg
"RESET" = 62 ,	1a2bh
"ARCHIVE" = 63 ,	1a2bi
"SEQUENTIAL" = 64 ,	1a2bj
"TWO" = 65 ,	1a2bk
"JUSTIFIED" = 66 ,	1a2bl
"ASSEMBLER" = 67 ,	1a2bm
"BOTH" = 68 ,	1a2bn
"UNDELETE" = 69 ,	1a2bo
"FOR" = 70 ,	1a2bp
"STATUS" = 71 ,	1a2bq

USESTATS User Statistics subsystem: FY75 account numbers

"TAPE" = 72 ,	1a2br
"ACCOUNT" = 73 ,	1a2bs
"NO" = 74 ,	1a2bt
"VERSIONS" = 75 ,	1a2bu
"EXTENSION" = 76 ,	1a2bv
"DATE" = 77 ,	1a2bw
"CREATION" = 78 ,	1a2bx
"LAST" = 79 ,	1a2by
"FIRST" = 80 ,	1a2bz
"READ" = 81 ,	1a2c@
"WRITE" = 82 ,	1a2ca
"DUMP" = 83 ,	1a2cb
"EVERYTHING" = 84 ,	1a2cc
"LENGTH" = 85 ,	1a2cd
"MISCELLANEOUS" = 86 ,	1a2ce
"ACCESSES" = 87 ,	1a2cf
"PROTECT" = 88 ,	1a2cg
"SIZE" = 89 ,	1a2ch
"TIME" = 90 ,	1a2ci
"VERBOSSE" = 91 ,	1a2cj
"SORT" = 92 ,	1a2ck
"BYTESIZE" = 93 ,	1a2cl
"ARCHIVED" = 94 ,	1a2cm
"ALL" = 95 ,	1a2cn
"MODIFICATIONS" = 96 ,	1a2co

USESTATS User Statistics subsystem: FY75 account numbers

"UPPER" = 97 ,	1a2cp
"LOWER" = 98 ,	1a2cq
"MODE" = 99 ,	1a2cr
"SENDMAIL" = 100 ,	1a2cs
"BUSY" = 101 ,	1a2ct
"QUICKPRINT" = 102 ,	1a2cu
"JOURNAL" = 103 ,	1a2cv
"PRINTER" = 104 ,	1a2cw
"COM" = 105 ,	1a2cx
"TERMINAL" = 106 ,	1a2cy
"REMOTE" = 107 ,	1a2cz
"REST" = 108 ,	1a2de
"CASE" = 109 ,	1a2da
"CONTENT" = 110 ,	1a2db
"TEMPORARY" = 111 ,	1a2dc
"VIEWSPECS" = 112 ,	1a2dd
"EXTERNAL" = 113 ,	1a2de
"TO" = 114 ,	1a2df
"PRIVATE" = 115 ,	1a2dg
"PUBLIC" = 116 ,	1a2dh
"TENEX" = 117 ,	1a2di
"ALLOW" = 118 ,	1a2dj
"EXECUTE" = 119 ,	1a2dk
"APPEND" = 120 ,	1a2dl
"LIST" = 121 ,	1a2dm

USESTATS User Statistics subsystem: FY75 account numbers

"SET" = 122 ,	1a2dn
"SELF" = 123 ,	1a2do
"FORBID" = 124 ,	1a2dp
"DISK" = 125 ,	1a2dq
"DEFAULT" = 126 ,	1a2dr
"OLD" = 127 ,	1a2ds
"NEW" = 128 ,	1a2dt
"COMPACT" = 129 ,	1a2du
"RENAME" = 130 ,	1a2dv
"ADD" = 131 ,	1a2dw
"SUBTRACT" = 132 ,	1a2dx
"MULTIPLY" = 133 ,	1a2dy
"DIVIDE" = 134 ,	1a2dz
"RIGHT" = 135 ,	1a2e@
"LEFT" = 136 ,	1a2ea
"ACTION" = 137 ,	1a2eb
"AUTHORS" = 138 ,	1a2ec
"COMMENT" = 139 ,	1a2ed
"EXPEDITE" = 140 ,	1a2ee
"HARDCOPY" = 141 ,	1a2ef
"INFORMATION" = 142 ,	1a2eg
"INSERT" = 143 ,	1a2eh
"KEYWORDS" = 144 ,	1a2ei
"OBSOLETES" = 145 ,	1a2ej
"RFC" = 146 ,	1a2ek

USESTATS User Statistics subsystem: FY75 account numbers

"SUBCOLLECTIONS" = 147 ,	1a2e1
"TITLE" = 148 ,	1a2em
"UNRECORDED" = 149 ,	1a2en
"L10" = 150 ,	1a2eo
"PROCEDURE" = 151 ,	1a2ep
"SEGGENERATOR" = 152 ,	1a2eq
"BUFFER" = 153 ,	1a2er
"NDDT" = 154 ,	1a2es
"PARSERULE" = 155 ,	1a2et
"CA" = 156 ,	1a2eu
"CD" = 157 ,	1a2ev
"RPT" = 158 ,	1a2ew
"BC" = 159 ,	1a2ex
"BW" = 160 ,	1a2ey
"BS" = 161 ,	1a2ez
"LITESC" = 162 ,	1a2f@
"IGNORE" = 163 ,	1a2fa
"SC" = 164 ,	1a2fb
"SW" = 165 ,	1a2fc
"TAB" = 166 ,	1a2fd
"IMLAC" = 167 ,	1a2fe
"TI" = 168 ,	1a2ff
"NVT" = 169 ,	1a2fg
"EXECUPORT" = 170 ,	1a2fh
"MENU" = 171 ,	1a2fi

USESTATS User Statistics subsystem: FY75 account numbers

"DNLS" = 172 ,	1a2fj
"TNLS" = 173 ,	1a2fk
"COMMAND" = 174 ,	1a2fl
"RULE" = 175 ,	1a2fm
"SUBSYSTEM" = 176 ,	1a2fn
"DISPLAY" = 177 ,	1a2fo
"FROZEN" = 178 ,	1a2fp
"HLPCCM" = 179 ,	1a2fq
"PROGRAM" = 180 ,	1a2fr
"TERSE" = 181 ,	1a2fs
"INDENTING" = 182 ,	1a2ft
"UNIVERSAL" = 183 ,	1a2fu
"ENTRY" = 184 ,	1a2fv
"INCLUDE" = 185 ,	1a2fw
"BOTTOM" = 186 ,	1a2fx
"PAGE" = 187 ,	1a2fy
"OFF" = 188 ,	1a2fz
"FULL" = 189 ,	1a2g0
"PARTIAL" = 190 ,	1a2ga
"ANTICIPATORY" = 191 ,	1a2gb
"DEMAND" = 192 ,	1a2gc
"FIXED" = 193 ,	1a2gd
"CONTROL" = 194 ,	1a2ge
"CURRENTCONTEXT" = 195 ,	1a2gf
"FEEDBACK" = 196 ,	1a2gg

USESTATS User Statistics subsystem: FY75 account numbers

"HERALD" = 197 ,	1a2gh
"PRINTOPTIONS" = 198 ,	1a2gi
"PROMPT" = 199 ,	1a2gj
"RECOGNITION" = 200 ,	1a2gk
"STARTUP" = 201 ,	1a2gl
"LEVELADJUST" = 202 ,	1a2gm
"REVERSE" = 203 ,	1a2gn
"TEST" = 204 ,	1a2go
"TASKER" = 205 ,	1a2gp
"LINEPROCESSOR" = 206 ,	1a2gq
"CENTER" = 207 ,	1a2gr
"CNTLG" = 208 ;	1a2gs
 % COMMON RULES %	 1b
% ENTITY DEFINITIONS %	1b1
editentity = textent / structure;	1b1a
% TEXT ENTITY DEFINITIONS %	1b2
textent = text1 / "TEXT" / "LINK" / "NUMBER";	1b2a
text1 = "CHARACTER" / "WORD" / "VISIBLE" / "INVISIBLE";	1b2b
% STRUCTURE ENTITY DEFINITIONS %	1b3
structure = "STATEMENT" / notstatement;	1b3a
notstatement = "GROUP" / "BRANCH" / "PLEX" ;	1b3b
% SWITCH %	1b4
switch = ("ON"! 1!/"OFF"!2 L2!);	1b4a
% DEVICE TYPES %	1b5
devopt =	1b5a

USESTATS User Statistics subsystem: FY75 account numbers

```

( "TASKER"!L2!                                     1b5a1
/ "TI" <"Terminal">                                1b5a2
/ "NVT"                                              1b5a3
/ "LINEPROCESSOR"                                  1b5a4
/ "IMLAC"                                           1b5a5
/ "EXECUPOINT"                                     1b5a6
/ "33-TTY"! 33!                                    1b5a7
/ "35-TTY"! 35!                                    1b5a8
/ "37-TTY"! 37! );                                  1b5a9

SUBSYSTEM usestats KEYWORD "USESTATS"              1c
INITIALIZATION                                     1c1
  uinit =                                          1c1a
    useinit() ;                                   1c1a1

COMMAND                                             1c2
  uconvert =                                       1c2a
    "CONVERT" <"and total">                       1c2a1
    ("FACT" <"File at">                            1c2a2
      source = DSEL("#STATEMENT")                 1c2a2a
      CONFIRM                                     1c2a2b
      xconvfact (source)                         1c2a2c
    /"SEQUENTIAL" <"Fact File">                   1c2a3
      source = LSEL("#OLDFILELINK")               1c2a3a
      <"Insert Branch at"> dent = DSEL("#STATEMENT") 1c2a3b
      level = LEVADj                              1c2a3c
      CONFIRM                                     1c2a3d

```

USESTATS User Statistics subsystem: FY75 account numbers

```

        xconvsfact (source,dent,level)                                1c2a3e
    ) ;                                                                1c2a4
COMMAND                                                                1c3
    utotal =                                                            1c3a
        "TOTAL" "BRANCH" <"at">                                       1c3a1
        source = DSEL("#STATEMENT")                                     1c3a2
        CONFIRM                                                         1c3a3
        xtotal(source) ;                                              1c3a4
COMMAND                                                                1c4
    uextract =                                                            1c4a
        "EXTRACT"!L2! "GROUP" <"Name">                                1c4a1
        ent = LSEL("#WORD")                                           1c4a2
        <"for weeks">                                                  1c4a3
        source = DSEL("#GROUP")                                        1c4a4
        CLEAR <"Insert Branch at">                                     1c4a5
        dent = DSEL("#STATEMENT")                                     1c4a6
        level = LEVADJ                                                1c4a7
        CONFIRM                                                         1c4a8
        xextgrp (dent, level, ent, source) ;                          1c4a9
END,                                                                    1c5
FINISH                                                                    1d
FILE lusestats % (L10,) TD (meyer, usestats,subsys,) %              2
% globals %                                                            2a
    DECLARE sixty[2], hundred[2], cpuacc[2], conacc[2], cputot[2],
    contot[2] ;                                                         2a1

```


USESTATS User Statistics subsystem: FY75 account numbers

```

DECLARE                                     2a2
    namlen = 16,                             2a2a
    datlen = 10,                             2a2b
    timlen = 12;                             2a2c
DECLARE STRING date[100] ;                 2a3
(useinit) PROCEDURE (result, parsemode);   2b
    REF result ;                             2b1
    CASE parsemode OF                       2b2
        = parsing:                          2b2a
            BEGIN                            2b2a1
                nfloat(s"60", ssixty, ssixty+1) ; 2b2a2
                nfloat(s"100", shundred, shundred+1) ; 2b2a3
            END;                             2b2a4
        ENDCASE;                             2b2b
    RETURN (&result);                       2b3
END,                                         2b4
(xtotal) PROCEDURE (result, parsemode, wkbranch); 2c
    LOCAL indent ;                          2c1
    REF result, wkbranch ;                  2c2
    CASE parsemode OF                      2c3
        = parsing:                          2c3a
            BEGIN                            2c3a1
                % compute indentation adjustment % 2c3a2
                indent = 3 * (3 = getlev(wkbranch) ) ; 2c3a2a
                totalbr (wkbranch,indent) ;    2c3a3
    
```

USESTATS User Statistics subsystem: FY75 account numbers

```

% done %                                2c3a4
    IF nlmode=fulldislay THEN alldsp() ;    2c3a4a
END;                                        2c3a5
ENDCASE;                                  2c3b
RETURN (&result);                          2c4
END,                                        2c5
(xconvsfact) PROCEDURE (result, parsemode, file, stid, levadj) ;    2d
    LOCAL astid, level, jfn ;                2d1
    LOCAL TEXT POINTER fptr1, fptr2, fptr3, fptr4, fptr5, fptr6 ;    2d2
    LOCAL STRING line(2000) ;                2d3
    REF result, file, stid, levadj ;         2d4
    CASE parsemode OF                        2d5
        = parsing;                            2d5a
            BEGIN                              2d5a1
                level _ levadj ;                2d5a2
                % open input file %            2d5a3
                    lnbfls(&file,0, $line) ;    2d5a3a
                    IF NOT jfn = 1getjfn (0, $line, stxttext, gtjoisf,
                    slit)                      2d5a3b
                        THEN SIGNAL (ofilerr, slit) ;    2d5a3b1
                    IF NOT sysopen (jfn, read, chrtyp, slit) THEN    2d5a3c
                        BEGIN                    2d5a3c1
                            reljfn (jfn) ;    2d5a3c2
                            SIGNAL (ofilerr, slit) ;    2d5a3c3
                        END;                    2d5a3c4
            END;

```

USESTATS User Statistics subsystem: FY75 account numbers

```

% get date %                                2d5a4
    LOOP %header%                            2d5a4a
        BEGIN                                2d5a4a1
            IF NOT isread (jfn, sline, Lf) THEN. 2d5a4a2
                BEGIN                          2d5a4a2a
                    dismes (1, s"Invalid format for Fact File"); 2d5a4a2b
                RETURN (&result) ;            2d5a4a2c
            END;                                2d5a4a2d

            IF FIND SF(*line*) $NP "TENEX SUMMARY SHEET FOR PAY
            PERIOD " 1sUL (',/TRUE) 1sSP 1sD 1sSP "THRU" 1sSP
            *fptr1 sUL *fptr2 (',/TRUE) sSP *fptr3 1sD *fptr4
            1sSP ("19"/TRUE) *fptr5 1sD *fptr6 THEN 2d5a4a3
                BEGIN                            2d5a4a3a
                    *date* _ fptr1 fptr2 ;      2d5a4a3b
                    date,L _ MIN(date,L, 3) ;  2d5a4a3c
                    *date* _ fptr3 fptr4, '=', *date*, '=', fptr5
                    fptr6 ;                      2d5a4a3d
                EXIT LOOP;                        2d5a4a3e
            END;                                2d5a4a3f
        END;                                    2d5a4a4
% get week's total %                          2d5a5
    LOOP                                        2d5a5a
        BEGIN                                    2d5a5a1
            IF NOT isread (jfn, sline, LF) THEN EXIT LOOP ; 2d5a5a2
            IF FIND SF(*line*) SNP *fptr1 "TOTAL" *fptr2 THEN
            EXIT LOOP ;                          2d5a5a3
            FIND Sf(*line*) SNP *fptr1 $g(*line*) SNP *fptr2 >
            !                                    2d5a5a4

```

USESTATS User Statistics subsystem: FY75 account numbers

```

*line* = fptr1 fptr2 ;                                2d5a5a5
END;                                                    2d5a5a6
stconv (fptr1) ;                                       2d5a5b
ST fptr1 fptr2 = "Week ending" ; %6 more chars than
"TOTAL" so should line up columns just right%        2d5a5c
FIND SF(*line*) "fptr1 SE(*line*) "fptr2 > ;        2d5a5d
astid = cinssta (stid, level, sfptr1, sfptr2) ;       2d5a5e
% process each account %                                2d5a6
level = -1 ;                                           2d5a6a
LOOP                                                    2d5a6b
  BEGIN                                                2d5a6b1
    %place account statement%                          2d5a6b2
    LOOP                                              2d5a6b2a
      BEGIN                                           2d5a6b2a1
        IF NOT isread (jfn, sline, LF) THEN EXIT LOOP
        2 ; %header%                                   2d5a6b2a2
        IF FIND SF(*line*) sNP "fptr1 "ACCOUNT:"
        "fptr2 THEN EXIT LOOP ;                       2d5a6b2a3
      END;                                           2d5a6b2a4
      acct (fptr1) ;                                   2d5a6b2b
      FIND SF(*line*) "fptr1 SE(*line*) "fptr2 > ;  2d5a6b2c
      stid = astid = cinssta (astid, level, sfptr1,
      sfptr2) ;                                       2d5a6b2d
      level = -1 ;                                     2d5a6b2e
      %move directories under it%                     2d5a6b3
    LOOP                                              2d5a6b3a
      BEGIN                                           2d5a6b3a1

```


USESTATS User Statistics subsystem: FY75 account numbers

```

        IF NOT isread (jfn, sline, LF) THEN EXIT LOOP
        2 ;
                                                2d5a6b3a2

        IF FIND SF(*line*) sNP "fptri "USER" "fptr2
        THEN EXIT LOOP ;
                                                2d5a6b3a3

        END;
                                                2d5a6b3a4

    LOOP
                                                2d5a6b3b

        BEGIN
                                                2d5a6b3b1

        IF NOT isread (jfn, sline, LF) THEN EXIT LOOP
        2 ;
                                                2d5a6b3b2

        IF FIND SF(*line*) sNP ("TOTAL"/ENDCHR) THEN
        EXIT LOOP;
                                                2d5a6b3b3

        IF FIND SF(*line*) sNP ("*USER ID CODE"/D)
        THEN REPEAT LOOP;
                                                2d5a6b3b4

        FIND SF(*line*) sNP "fptri SE(*line*) sNP
        "fptr2 >;
                                                2d5a6b3b5

        stid = cinssta (stid, level, sfptr1, sfptr2)
        ;
                                                2d5a6b3b6

        level = 0 ;
                                                2d5a6b3b7

        END;
                                                2d5a6b3b8

        level = 0 ;
                                                2d5a6b3c

        %convert account branch%
                                                2d5a6b4

        convtot (astid) ;
                                                2d5a6b4a

        END;
                                                2d5a6b5

    % done %
                                                2d5a7

        IF nmode=fulldisplay THEN alldsp() ;
                                                2d5a7a

        END;
                                                2d5a8

    ENDCASE;
                                                2d5b

    RETURN (&result);
                                                2d6
    
```

USESTATS User Statistics subsystem: FY75 account numbers

```

END, 2d7
(xconvfact) PROCEDURE (result, parsemode, file) ; 2e
    LOCAL stid, astid, level ; 2e1
    LOCAL TEXT POINTER fptr1, fptr2, fptr3, fptr4, fptr5, fptr6 ; 2e2
    REF result, file ; 2e3
    CASE parsemode OF 2e4
        = parsing: 2e4a
            BEGIN 2e4a1
                % get date % 2e4a2
                    stid = file ; 2e4a2a
                    stid.stpsid = origin ; 2e4a2b
                    stid = getsub(stid) ; 2e4a2c
                    IF NOT FIND SF(stid) "TENEX SUMMARY SHEET FOR PAY
                    PERIOD " 1sUL (./TRUE) 1sSP 1sD 1sSP "THRU" 1sSP
                    ~fptr1 sUL ~fptr2 (./TRUE) sSP ~fptr3 1sD ~fptr4 1sSP
                    ("19"/TRUE) ~fptr5 1sD ~fptr6 THEN 2e4a2d
                        BEGIN 2e4a2d1
                            dismes (1, s"Invalid format for Fact File"); 2e4a2d2
                            RETURN (&result) ; 2e4a2d3
                        END; 2e4a2d4
                    *date* = fptr1 fptr2 ; 2e4a2e
                    date.L = MIN(date.L, 3) ; 2e4a2f
                    *date* = fptr3 fptr4, '=', *date*, '=', fptr5 fptr6 ; 2e4a2g
                % get week's total % 2e4a3
                    fptr1 = stid ; 2e4a3a
                LOOP 2e4a3b

```

USESTATS User Statistics subsystem: FY75 account numbers

```

BEGIN                                                    2e4a3b1

IF FIND SF(fp1) "fp1 "TOTAL" "fp2 THEN EXIT
LOOP ;                                                  2e4a3b2

stid = (fp1 := getsuc(fp1)) ;                            2e4a3b3

cde1gro (stid, stid, 0, 0) ;                             2e4a3b4

END;                                                    2e4a3b5

stconv (fp1) ;                                          2e4a3c

ST fp1 fp2 = "Week ending" ; %6 more chars than
"TOTAL" so should line up columns just right%         2e4a3d

level = -1 ;                                           2e4a4

astid = stid = fp1 ;                                    2e4a5

LOOP % process each account %                            2e4a6

    BEGIN                                               2e4a6a

    %place account statement%                            2e4a6b

    fp1 = getsuc(stid) ;                                  2e4a6b1

    LOOP                                               2e4a6b2

        BEGIN                                           2e4a6b2a

        IF FIND SF(fp1) "fp1 "ACCOUNT:" "fp2 THEN
        EXIT LOOP ;                                     2e4a6b2b

        IF FIND SF(fp1) "fp1 SP ENDCHR THEN           2e4a6b2c

            IF (fp2=getsub(fp1)) # fp1                 2e4a6b2c1

                THEN cmovsta(fp1,0,fp2,0,0);           2e4a6b2c1a

            fp2 = (fp1 := getsuc(fp1)) ;                2e4a6b2d

            cde1gro (fp2, fp2, 0, 0) ;                  2e4a6b2e

            IF fp1.stpsid=origin THEN EXIT LOOP 2 ;    2e4a6b2f

        END;                                            2e4a6b2g

```

USESTATS User Statistics subsystem: FY75 account numbers

```

      acct (fptr1) ;                                2e4a6b3
      astid = cmovsta (astid, level, fptr1, 0,0) ;  2e4a6b4
      level = 0 ;                                  2e4a6b5
%move directories under it%                        2e4a6c
      fptr1 = getsuc(stid) ;                        2e4a6c1
      LOOP                                         2e4a6c2
          BEGIN                                    2e4a6c2a
              IF FIND SF(fptr1) "USER" THEN EXIT LOOP ; 2e4a6c2b
              fptr1 = getsuc(fptr1) ;              2e4a6c2c
          END;                                     2e4a6c2d
      fptr1 = fptr2 = fptr3 = getsuc(fptr1) ;      2e4a6c3
      LOOP                                         2e4a6c4
          BEGIN                                    2e4a6c4a
              IF FIND SF(fptr2) ("TOTAL"/NP) THEN EXIT LOOP ; 2e4a6c4b
              fptr2 = getsuc(fptr3_fptr2) ;        2e4a6c4c
          END;                                     2e4a6c4d
      cmovgro (astid, =1, fptr1, fptr3, 0,0) ;    2e4a6c5
%convert account branches                          2e4a6d
      convtot (astid) ;                            2e4a6d1
      END;                                         2e4a6e
% done %                                          2e4a7
      IF nmode=fulldisplay THEN alldsp() ;        2e4a7a
      END;                                         2e4a8
      ENDCASE;                                    2e4b
      RETURN (&result);                           2e5

```


USESTATS User Statistics subsystem: FY75 account numbers

```

END. 2e6

(xextgrp) PROCEDURE (result, parsemode, where, levadj, grp,
weeks); 2f

LOCAL level, stid, cpy ; 2f1
LOCAL TEXT POINTER eptr1, eptr2, eptr3, eptr4 ; 2f2
LOCAL STRING grpstr[50] ; 2f3
REF result, where, levadj, grp, weeks ; 2f4
CASE parsemode OF 2f5
  = parsing; 2f5a
    BEGIN 2f5a1
      % get grpstr % 2f5a2
        eptr1 = grp; eptr1[1] = grp[1]; 2f5a2a
        eptr2 = grp[2]; eptr2[1] = grp[3]; 2f5a2b
        *grpstr* = eptr1 eptr2 ; 2f5a2c
        astruc(sgrpstr) ; 2f5a2d
      % get dates % 2f5a3
        eptr1 = weeks ; 2f5a3a
        eptr3 = weeks[2] ; 2f5a3b
        IF NOT FIND SF(eptr1) [D] ^eptr1 _eptr1 SPT ^eptr2
SF(eptr3) [D] ^eptr3 _eptr3 SPT ^eptr4 THEN 2f5a3c
          BEGIN 2f5a3c1
            dismes (1, s"Invalid Format in Weeks") ; 2f5a3c2
            RETURN (FALSE) ; 2f5a3c3
          END ; 2f5a3c4
        *date* = *grpstr*, SP, eptr1 eptr2, " thru ", eptr3
eptr4 ; 2f5a3d

```

USESTATS User Statistics subsystem: FY75 account numbers

```

        FIND SF(*date*) "eptr3 SE(*date*) "eptr4 > ;                2f5a3e
        eptr2 = stid = cinssta (where, levadj, septr3, septr4)        2f5a3f
        ;
% copy all branches under new statement %                            2f5a4
        level = -1 ;                                                2f5a4a
        LOOP %for each week (eptr1)%                                2f5a4b
            BEGIN                                                    2f5a4b1
                IF (cpy = getsub(eptr1)) = eptr1 THEN                2f5a4b2
                    BEGIN                                           2f5a4b2a
                        dismes (1, s"No groups in Week") ;          2f5a4b2b
                        RETURN (FALSE) ;                             2f5a4b2c
                    END ;                                           2f5a4b2d
                LOOP %find group%                                    2f5a4b3
                    BEGIN                                           2f5a4b3a
                        IF FIND SF(cpy) *grpstr* SP THEN EXIT LOOP; 2f5a4b3b
                        IF getftl(cpy) THEN                            2f5a4b3c
                            BEGIN                                    2f5a4b3c1
                                dismes (1, s"Group not in Week") ; 2f5a4b3c2
                                RETURN (FALSE) ;                    2f5a4b3c3
                            END ;                                    2f5a4b3c4
                        cpy = getsuc(cpy) ;                            2f5a4b3d
                    END;                                             2f5a4b3e
                stid = coopgro (stid, level, cpy, cpy, 0,0) ;        2f5a4b4
                level = 0;                                           2f5a4b5
                IF eptr1=weeks[2] OR getftl(eptr1) THEN EXIT LOOP; 2f5a4b6

```

USESTATS User Statistics subsystem: FY75 account numbers

```

        LOOP %find next week%                                2f5a4b7
            BEGIN                                            2f5a4b7a
                eptr1 = getsuc(eptr1) ;                      2f5a4b7b
                IF FIND SF(eptr1) "week" THEN EXIT LOOP ;   2f5a4b7c
                IF eptr1=weeks[2] OR getft1(eptr1) THEN EXIT  2f5a4b7d
                LOOP 2;
            END;                                             2f5a4b7e
        END;                                               2f5a4b8
    % total branch %                                       2f5a5
        totalbr (eptr2,6) ;                                2f5a5a
    % done %                                               2f5a6
        IF nmode=fulldisplay THEN alldsp() ;              2f5a6a
    END;                                                   2f5a7
ENDCASE;                                                 2f5b
RETURN (&result);                                       2f6
END,                                                       2f7
% Support Routines %                                     2g
(totalbr) PROCEDURE (brch, add);                          2g1
    LOCAL TEXT POINTER tptr1, tptr2, tptr3, tptr4, tptr5, tptr6  2g1a
    ;
    LOCAL STRING tname[50], tcpustr[25], tconstr[25], tratio[25]  2g1b
    ;
    IF NOT FIND SF(brch) "tptr1 UL [*- 2(D)] SD (SSP "thru" [*-  2g1c
    2(D)] SD / TRUE) "tptr2
        THEN                                             2g1c1
            BEGIN                                         2g1c1a
                dismes (1, s"Improper format in Branch title") ; 2g1c1b

```

USESTATS User Statistics subsystem: FY75 account numbers

```

        RETURN (FALSE);                                2g1c1c
    END                                                2g1c1d
ELSE                                                2g1c2
    BEGIN                                            2g1c2a
        *tname* = tptr1 tptr2 ;                    2g1c2b
        strlen ($tname, namlen+datlen+add, 1) ;    2g1c2c
    END;                                            2g1c2d
IF (tptr3 = getsub(tptr1)) = tptr1 THEN            2g1d
    BEGIN                                            2g1d1
        dismes (1, $"No members in Branch" );    2g1d2
        RETURN (TRUE);                            2g1d3
    END;                                            2g1d4
% initialize variables %                            2g1e
    nfloat("0", sputot, sputot+1) ;                2g1e1
    nfloat("0", scontot, scontot+1) ;            2g1e2
LOOP % add up cpu and con tmes %                    2g1f
    BEGIN                                            2g1f1
        IF (NOT FIND SF(tptr3) UL [*.] < SPT "tptr3 > SPT "tptr4
            [*.] < SPT "tptr5 > SPT "tptr6)        2g1f2
            THEN                                    2g1f2a
                BEGIN                                2g1f2a1
                    ST tptr3 = "*bad* ", SF(tptr3) SE(tptr3) ; 2g1f2a2
                END                                    2g1f2a3
            ELSE                                    2g1f2b
                BEGIN                                2g1f2b1

```


USESTATS User Statistics subsystem: FY75 account numbers

```

% cpu %
*tcpustr* = tptr3 tptr4 ;
nfloat(stcpustr, scpuacc, scpuacc+1) ;
qadd (scputot, scpuacc) ;
% con %
*tconstr* = tptr5 tptr6 ;
nfloat(stconstr, sconacc, sconacc+1) ;
qadd (scontot, sconacc) ;
END;
IF getft1 (tptr3) THEN EXIT LOOP ;
tptr3 = getsuc(tptr3) ;
END;
% rebuild statement %
% cpu %
qfloutp (scputot, stcpustr, 0) ;
FIND SF(*tcpustr*) SNP ^tptr3 SE(*tcpustr*) SNP ^tptr4
> ;
*tcpustr* = tptr3 tptr4 ;
strlen (stcpustr, timlen, 2) ;
% con %
qfloutp (scontot, stconstr, 0) ;
FIND SF(*tconstr*) SNP ^tptr3 SE(*tconstr*) SNP ^tptr4
> ;
*tconstr* = tptr3 tptr4 ;
strlen (stconstr, timlen, 2) ;
% ratio %

```

USESTATS User Statistics subsystem: FY75 account numbers

```

        getratio (stratio, scomputot, scontot) ;                2g1g3a
        strlen (stratio, timlen, 2) ;                          2g1g3b
        ST tptr1 = *tname*, *tcpustr*, *tconstr*, *tratio* ;  2g1g4
RETURN (TRUE);                                               2g1h
END.                                                         2g1i
(acct) PROCEDURE (stid) ;                                     2g2
        LOCAL TEXT POINTER aptr1, aptr2 ;                    2g2a
        LOCAL STRING anum[100] ;                             2g2b
        IF NOT FIND SF(stid) [D] "aptr1 _aptr1 $D "aptr2 THEN 2g2c
RETURN;
        *anum* = aptr1 aptr2 ;                                2g2d
        CASE VALUE(sanum) OF                                  2g2e
                = 10:      ST stid = "SYSTEM" ;              2g2e1
                = 20:      ST stid = "TYMSHARE" ;           2g2e2
                = 30:      ST stid = "ARC-UTIL" ;           2g2e3
                = 90:      ST stid = "CONSULTANTS" ;        2g2e4
                =200:      ST stid = "NSRDC" ;               2g2e5
                =320:      ST stid = "HUDSON" ;              2g2e6
                =340:      ST stid = "ETS" ;                 2g2e7
                =360:      ST stid = "ARC-APP" ;             2g2e8
                =380:      ST stid = "ARC-MGT" ;            2g2e9
                =400:      ST stid = "RADC" ;                2g2e10
                =440:      ST stid = "AFAA" ;                2g2e11
                =500:      ST stid = "BELL" ;                2g2e12
                =600:      ST stid = "BRL" ;                 2g2e13

```

USESTATS User Statistics subsystem: FY75 account numbers

```

=700:      ST stid = "SRI" ;                               2g2e14
=800:      ST stid = "ARPA" ;                               2g2e15
=820:      ST stid = "MIT-SEISMIC" ;                       2g2e16
=840:      ST stid = "NICGUEST" ;                           2g2e17
=880:      ST stid = "ARPA-NSW" ;                           2g2e18
=900:      ST stid = "NSA" ;                                 2g2e19
ENDCASE    ST stid = "ACCOUNT";                             2g2e20

ST stid = SF(stid) SE(stid), " (" , *anum* , ") ;           2g2f
RETURN;                                           2g2g
END,                                             2g2h

(convtot) PROCEDURE (struc);                          2g3
LOCAL stid ;                                       2g3a
LOCAL TEXT POINTER xcptr1, xcptr2 ;                 2g3b
LOCAL STRING total[200], cpustr[20], constr[20],
ratiostr[20], datstr[20] ;                           2g3c
% initializations %                                2g3d
    nfloat("$"0", scpuacc, scpuacc+1) ;               2g3d1
    nfloat("$"0", sconacc, sconacc+1) ;               2g3d2
% reformat group %                                  2g3e
    IF (stid_getsub(struc)) # struc THEN              2g3e1
        LOOP                                          2g3e2
            BEGIN                                      2g3e2a
                stconv (stid) ;                       2g3e2b
                IF getft1(stid) THEN EXIT LOOP;       2g3e2c
                stid = getsuc(stid) ;                 2g3e2d

```

USESTATS User Statistics subsystem: FY75 account numbers

```

        END;
        % insert total %
        IF FIND SF(struc) "xcptr1 s(yL/SP) ("( SD ")/< SSP >)"
        "xcptr2
            THEN *total* = xcptr1 xcptr2
            ELSE *total* = "GROUP TOTAL" ;
        *datstr* = *date* ;
        qfloutp (scpuacc, scpustr, 0) ;
        IF FIND SF(*cpustr*) "xcptr1 isNP "xcptr2 THEN ST xcptr1
        xcptr2 = NULL ;
        qfloutp (sconacc, sconstr, 0) ;
        IF FIND SF(*constr*) "xcptr1 isNP "xcptr2 THEN ST xcptr1
        xcptr2 = NULL ;
        % ratio %
        getratio (sratiostr, scpuacc, sconacc) ;
        strlen (stotal, namlen+3, 1) ;
        strlen (sdatstr, datlen, 2) ;
        strlen (scpustr, timlen, 2) ;
        strlen (sconstr, timlen, 2) ;
        strlen (sratiostr, timlen, 2) ;
        ST struc = *total*, *datstr*, *cpustr*, *constr*,
        *ratiostr* ;
    RETURN;
    END.
(stconv) PROCEDURE (stid) ;
    % declarations %
    LOCAL stncpu[2], stncon[2] ;

```


USESTATS User Statistics subsystem: FY75 account numbers

```

LOCAL TEXT POINTER stptr1, stptr2, stptr3, stptr4,
stptr5, stptr6;                                2g4a2

LOCAL STRING stcpu[50], stcon[50], stnam[50], stdat[50],
stratio[50] ;                                  2g4a3

% parse statement %                             2g4b

  IF NOT FIND                                    2g4b1
    SF(stid) "stptr1 SPT "stptr2                2g4b1a
    [':] < CH 1s(D) "stptr3 > [':] [':] SSP 1s(D) "stptr4 2g4b1b
    [':] < CH 1s(D) "stptr5 > [':] [':] SSP 1s(D) "stptr6 2g4b1c
  THEN                                           2g4b2
    BEGIN                                        2g4b2a
      ST stid _ "*bad* ", SF(stid) SE(stid) ;   2g4b2b
      RETURN;                                    2g4b2c
    END;                                         2g4b2d

    *stnam* _ stptr1 stptr2 ;                    2g4b3
    *stcpu* _ stptr3 stptr4 ;                    2g4b5
    *stcon* _ stptr5 stptr6 ;                    2g4b6
    *stratio* _ NULL ;                           2g4b7

% convert numbers %                             2g4c

  IF NOT convadd (sstcpu, scpuacc, sstncpu) THEN 2g4c1
    *stcpu* _ "*bad*" ;                          2g4c1a

  IF NOT convadd (sstcon, sconacc, sstncon) THEN 2g4c2
    *stcon* _ "*bad*" ;                          2g4c2a

% ratio %                                       2g4d

  getratio (sstratio, sstncpu, sstncon) ;       2g4d1

```

USESTATS User Statistics subSystem: FY75 account numbers

```

% rebuild statement %                                2g4e
  strlen ($stnam, namlen, 1) ;                          2g4e1
  strlen ($stdat, datlen, 2) ;                          2g4e2
  strlen ($stcpu, timlen, 2) ;                          2g4e3
  strlen ($stcon, timlen, 2) ;                          2g4e4
  strlen ($stratio, timlen, 2) ;                       2g4e5
  ST stid = *stnam*, *stdat*, *stcpu*, *stcon*, *stratio* ; 2g4e6

RETURN;                                                2g4f

END,                                                  2g4g

(getratio) PROCEDURE (str, cpuarr, conarr) ;          2g5
% declarations %                                       2g5a
  LOCAL ratarr[2] ;                                    2g5a1
  LOCAL TEXT POINTER rptr1, rptr2 ;                   2g5a2
  REF str, cpuarr, conarr ;                            2g5a3

% ratio %                                             2g5b
  qcdivw (&cpuarr, &conarr, sratarr) ;                2g5b1
  qcmult (sratarr, shundred) ;                         2g5b2
  qf1outp (sratarr, &str, 0) ;                         2g5b3
  FIND SF(*str*) SNP "rptr1 SE(*str*) SNP "rptr2 > ; 2g5b4
  *str* = rptr1 rptr2, 45B ;                           2g5b5

RETURN;                                                2g5c

END,                                                  2g5d

(convadd) PROCEDURE (str, accum, num) ;                2g6
% declarations %                                       2g6a
  LOCAL tnum[2] ;                                      2g6a1

```

USESTATS User Statistics subsystem: FY75 account numbers

```

LOCAL TEXT POINTER nptr1, nptr2, nptr3, nptr4, nptr5,
nptr6;                                2g6a2

LOCAL STRING numstr[20] ;             2g6a3

REF str, accum, num ;                 2g6a4

IF NOT FIND SF(*str*) "nptr1 1s(D) "nptr2 " : SSP "nptr3
1s2(D) "nptr4 " : SSP "nptr5 1s2(D) "nptr6 THEN RETURN(FALSE)
;                                       2g6b

% seconds %                            2g6c

*numstr* = nptr5 nptr6 ;               2g6c1

nfloat(snumstr, snum, snum+1) ;       2g6c2

qcdiw (snum, ssixty, snum) ;         2g6c3

% minutes %                            2g6d

*numstr* = nptr3 nptr4 ;               2g6d1

nfloat(snumstr, stnum, stnum+1) ;     2g6d2

qcad (snum, stnum) ;                  2g6d3

qcdiw (snum, ssixty, snum) ;         2g6d4

% hours %                              2g6e

*numstr* = nptr1 nptr2 ;               2g6e1

nfloat(snumstr, stnum, stnum+1) ;     2g6e2

qcad (snum, stnum) ;                  2g6e3

% add to accum %                        2g6f

qcad (&accum, snum) ;                 2g6f1

% replace number %                      2g6g

qfloutp (snum, snumstr, 0) ;         2g6g1

FIND SF(*numstr*) SNP "nptr1 SE(*numstr*) "nptr2 > ; 2g6g2

*str* = nptr1 nptr2 ;                 2g6g3

```

USESTATS User Statistics subsystem: FY75 account numbers

```

RETURN(TRUE) ;                               2g6h
END,                                           2g6i
(strlen) PROCEDURE (astr, length, just); %sets string whose
address is passed to length passed by truncating and adding
spaces, optionally left (1) or right (2) justified%      2g7
LOCAL TEXT POINTER lptr ;                     2g7a
REF astr ;                                     2g7b
length = MIN (length, astr.M) ;              2g7c
IF astr.L > length THEN                       2g7d
BEGIN                                         2g7d1
    astr.L = length + 1 ;                    2g7d2
    FIND SE(*astr*) [NP] sNP "lptr > ;      2g7d3
    astr.L = lptr[1] - 1 ;                    2g7d4
END;                                          2g7d5
FOR lptr = astr.L + 1 Up UNTIL > length DO   2g7e
CASE just OF                                  2g7e1
    =1: *astr*[lptr] = SP;                    2g7e1a
    =2: *astr* = SP, *astr* ;                 2g7e1b
ENDCASE EXIT LOOP ;                          2g7e1c
RETURN;                                       2g7f
END,                                           2g7g
FINISH                                         2h

```


NDM 13-FEB-75 16:54 25389

USESTATS User statistics subsystem; FY75 account numbers

(J25389) 13-FEB-75 16:54;;; Title: Author(s): N. Dean Meyer/NDM;
Distribution: /JCN([INFO-ONLY]) RA3Y([INFO-ONLY]) JCP([
INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk: NDM; Origin: <
MEYER, USESTATS.NLS;31, >, 13-FEB-75 16:53 NDM ;;;; #####

Add TFL to NSW group

please add Tom Lawrence (TFL) to the NSW group ident.

1

JBP 14-FEB-75 08:20 25390

Add TFL to NSW group

(J25390) 14-FEB-75 08:20;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /MLK([ACTION]) JAKE([INFO-ONLY]) ;
Sub=Collections: SRI=ARC; Clerk: JBP;

'Letter to XXX Tyler at YYY.'

DyNTyLER can bow be read as a journal item under the above title.

1

JOAN 14-FEB-75 08:23 25391

'Letter to XXX Tyler at YYY.'

(J25391) 14-FEB-75 08:23;;; Title: Author(s): JOAN HAMILTON/JOAN;
Distribution: /DPCS([ACTION]) ; Sub-Collections: SRI-ARC DPCS;
Clerk: JOAN;

DVNTYLER

DVNTYLER can now be read as a journal item under the above title.

1

JOAN 14-FEB-75 08:28 25392

DVNTYLER

(J25392) 14-FEB-75 08:28;;; Title: Author(s): JOAN HAMILTON/JOAN;
Distribution: /JOAN([ACTION]) ; sub-collections: SRI-ARC; Clerk:
JOAN;

missing mouse

I have mouse serial 07. Nice little fellow.

1

DIA 14-FEB-75 09:28 25393

missing mouse

UJ25393) 14-FEB-75 09:28;;; Title: Author(s): Don I. Andrews/DIA;
Distribution: /SLJ([ACTION]) ; Sub=Collections: SRI-ARC; Clerk:
DIA;

Be Alert! New <SUBSYS>L10 with bug fix

The previous L10 is now <SUBSYS>L10.OLD;30 and the current L10 is <SUBSYS>L10.SAV;31 -- It has a correction for the bug Dave Hopper found. Any problems should show up as register screwups in code that computes complicated expressions, but it appears to be OK. If problems, rename L10.SAV;31 to L10.UGH, rename L10.OLD;30 to .SAV and notify DIA.

1

Be Alert! New <SUBSYS>L10 with bug fix

(J25394) 14-FEB-75 09:55;;; Title: Author(s): Don I. Andrews/DIA;
Distribution: /NPG([ACTION]) ; Sub-Collections: SRI-ARC NPG; Clerk:
DIA;

Third NSW Documentation Work Loading

Following the work proposal discussion <25305,> we met to discuss structure for the Help data Bases for the different tools. Two things emerged:

We propose a three-tier file structure:

Help for a specific tool

If the search fails, it goes on to:

An umbrella file for general NLS terms.

If the search fails, it goes on to:

A file on the NSW front end.

In each file, links may cite the higher level file, but not the lower level file.

Although we have not been paid to document the Works Manager, in order to document the tools, we need to be able to link/search for a certain minimum of Works Manager information, e. g. commands universal to NSW. We propose to have that information in the top-level, front end file.

In our discussion, we found that the boundaries between tools were not clear enough for us to plan file structure meaningfully. The outline in <25305,> turned out to be a fantasy. Extended conversations with Elizabeth and others allowed us to make the outline below. In some case, something we describe as a tool may be later integrated into the NLS Editor. It is easier to integrate a separate tool file into a longer file than the other way around. More scheduling information will appear next week.

NSW DOCUMENTATION

Below is a list of the proposed documentation for NSW. Each tool will have a help data base that is written according to the description in <documentation,helpd.> For certain tools, we will write discursive introductions (Disc) no more than six pages which will include a general description of the tool and the reason for its existence. In addition, some tools will have Tutorial Scenarios (Scentorials, Tutarios) which will be task oriented documents that help the user get something done but do not necessarily teach everything he never always wanted to know but didn't know how to ask about the tool. With the exception of Graphics, these will be written for the TNLS user with future hopes of making the Necessary changes for the DNLS user. We recognize that some of these tools may merge.

DCPS

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DVN, Disc, Tutorial on formatting a file for COM.	2a1a
Programs	2a2
Kirk, Disc for Cobol users, Disc for L-10 programs, Tutorial for [writing and] compiling Cobol programs, and tutorial for writing, compiling and loading L-10 programs.	2a2a
Sendmail	2a3
Kirk, Disc, Tutorial on sending mail to a person in the IDENT file.	2a3a
Readmail	2a4
Kirk, Disc, Tutorial on reading your mail.	2a4a
Letter	2a5
Kirk, Disc, Tutorial on writing and sending a letter by U.S. mail.	2a5a
Caluculator	2a6
Pooh, Disc, Tutorial on completing an income tax form	2a6a
Graphics	2a7
Pooh, Disc, Scenario on making a flow chart	2a7a
NLS Editor	2a8
Pooh, Scenarios exist but they may need to be revised for changes in command recognition, etc.	2a8a
In addition we plan to write the following documents:	3
NSW	3a
Kirk, a general introduction to NSW which will take the intelligent user to a point where he/she can continue to learn on her/his on.	3a1
Kirk, a tutorial for NSW on how to log in and call up the Editor tool. This will include how to Use Help.	3a2
Interface to Secretarial Functions	3b
DVN, an introduction written for people who will be performing	

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secretarial functions. This document will reach across several tools and include those elements that seem appropriate for the tasks assigned to the user.

3b1

Kirk, a tutorial for secretarial tasks that will include inserting and modifying text, various means of printing text so it can be viewed, reading and sending mail.

3b2

Sequential I/O

3c

Pooh, a tutorial on how to use sequential I/O.

3c1

We recognize that it is important to co-ordinate tutorials with similar work going on in Applications.

4

Third NSW Documentation work Loading

(J25395) 14-FEB-75 11:53;;; Title: Author(s): Dirk H. Van Nouhuys,
Dirk E. Kelley, Ann Weinberg/DVN KIRK POOH; Distribution: /DIRT([
INFO-ONLY]) ; Sub-Collections: SRI-ARC DIRT; Clerk: POOH;
Origin: < WEINBERG, NSWTOOLS,NLS;6, >, 14-FEB-75 11:46 POOH ;;;;###;

Links in Locator to Output Processor's User's Guide in Locator Don't

This is the Output Processor Branch in Locator. The files named in the link are not online. Instead a single file <userguides,op-guide,> contains the information.

Links in Locator to Output Processor's user's guide in Locator Don't

OUTPUT PROCESSOR USERS' GUIDE
(:eb)

	1
INTRODUCTION TO USING OUTPUT PROCESSOR (userguides, op=intro,NLS, 3:mwyhG)	1a
LIST OF ALL DIRECTIVES (userguides, op=dirlist,NLS, entry:mwh)	1b
EXPLANATION OF ALL DIRECTIVES (userguides, op=direxp,NLS, entry:mwh)	1c
VALUE OPTIONS (userguides, op=valop,NLS, entry:mwh)	1d
MEANINGS OF PARAMETERS (userguides, op=params,NLS, entry:mwh)	1e
OUTPUT TO MICROFILM and TYPE SIZE AND FONT (userguides, op=com,NLS,2:whm)	1f
INDEX (userguides, op=index,NLS, entry:mwh)	1g

Links in Locator to Output Processor's User's guide in Locator Don't

(J25396) 14-FEB-75 13:54;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /FEED([ACTION]) DPCS([INFO-ONLY]) ;
Sub-Collections: SRI-ARC DPCS; Clerk: DVN;

Results of the Most Useless Command Contest

KIRK 11-FEB-75 21:53 25364

More than most useless command

Message: Execute Sendmail Message TYPEIN OK;

(your message is deleted next time you try to go to sendmail)

*****Note: Author copy*****

1

Comment: A good try, but useless only to experienced users.

1a

10-FEB-75 1055-PST DCRÖCKER at USC-ISIA: Most Useless Command Contest

Distribution: DYN AT ARC, POOH AT ARC

Received at: 10-FEB-75 11:09:19

2

(with assistance from Cxxx Kxxx == who probably would prefer to remain anonymous):

1. Delete Roots
2. Delete Journal System
3. Output Device Cardreader
4. (a strong vote for "Show Herald" which almost sounds plausible.)
5. Prune Branch
6. (and of course) Multi Plex
7. Forget Origin

2a

.... It just occurred to us that the commands you are looking for may actually exist now, in which case we can't contribute, since we do not have any experience with the new system. If, however, you are looking for NEW useless command, we hope you find some of the above useful(?).

2b

Comment: creative, but no useless imaginary comand can be as useless as a useless real command.

2b1

10-FEB-75 0951-PST LEHTMAN: contest
 Distribution: VANNOUHUYS, WEINBERG
 Received at: 10-FEB-75 09:51:22

3

Herewith, my entry. NLS on any day we're down a memory box ranks as the most use₁ess command. Syntax: "NLS" OK,

3a

Comment: Entry shows deep feeling, but brazen attempts to bribe and coerce judges disqualified contestant.

3a1

HGL

3b

DLS 11-FEB-75 13:58 31851

Most Useless Command Contest

Message: With lost characters, 10 minute echo lags, and 5 suspended

Results of the Most Useless Command Contest

connections per hour; my candidate for most useless command is: @ 1
43...In 3 weeks y'all will appreciate this more.
*****Note: [ACTION] *****

4

Comments: Ref (25313,)...There was no specific exclusion of
Commands outside NLS. The "system" from our view point has to
include the network, an unfortunate circumstance the past few
weeks!!

4a

Comment: At Jeff Peters' suggestions we disqualified this entry
on the grounds it is not a command at all but a prayer, and we
choose not to mix religion with technology.

4a1

DIA 11-FEB-75 10:10 25361

DIA's contest entry (worthless commnd)

Message: Execute (command in) Current Subsystem

*****Note: [ACTION] *****

5

Comments: The winner! Early in the bicentennial year Don will
recieve his prize, an autographed copy of the NLS-8 Glossary.

5a

Results of the Most Useless Command Contest

(J25397) 14-FEB-75 14:33;;; Title: author(s): Dirk H. Van Nouhuys,
Ann Weinberg/DVN POOH; Distribution: /DIA([ACTION]) SRI-ARC([
INFO-ONLY]) DLS([INFO-ONLY]) DHC([INFO-ONLY]) NJN([INFO-ONLY
]) LEG([INFO-ONLY]) PWO([INFO-ONLY]) MAP2([INFO-ONLY]) LPD(
[INFO-ONLY]) ECW([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk:
DVN; Origin: < VANNOUHUYS, CONTEST.NLS;1, >, 14-FEB-75 14:29 DVN
;;;#####;

Correction to 'Third NSW Documentation Work Loading' 2539

Reference: <HJOURNAL, 25395, 1a4>

Correction to 'Third NSW documentation Work Loading' 2539

We will link down to lower level files as well as higher level files. If for some reason, you do not have access to a linked-to description file, we write from the assumption you will be informed when the works manager tries to load the lower level file with a message such as "access has been denied to you" and your current view will not be changed. If you have access to that file we assume you will be placed in it and your subsequent searches will be made in relation to that location.

1

Correction to "Third NSW Documentation Work Loading" 2539

(J25398) 14-FEB-75 14:41;;; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /JOAN([ACTION] dirt) DIRT([INFO-ONLY]) ;
Sub-Collections: SRI-ARC DIRT; Clerk: KIRK;

Demonstration of Tymshare's Microtym System, 4 Feb 75

At 11:00 a.m. on 4 February, John Hoy (systems sales, western Region) and Neil Sullivan (Manager, Engineering Software) of Tymshare's Data Services Division gave a demonstration of the Microtym System in ARC's conference room.

Attendees were:

Mike Placko -- SRI Architect

Steve Port -- Technology Applications Department (Phil Whalen)

Joe Ehardt -- ARC

Doug Engelbart -- ARC

Jake Feinler -- ARC

Pat Whiting-O'Keefe -- Information Science Lab (EPC Proposal)

As demonstrated, the system consists of a microfilm display terminal which communicates with an XDS 940 at Tymshare; the computer controls the reeling of the microfilm. The demonstrators also brought a standard CRT terminal which is not normally part of the unit, but which was used to display to a group of people the interactive routines usually seen on a small strip of paper underneath the screen of the microfilm terminal.

The microfilm terminal displayed page images and "blips" -- Tymshare's term for the signals that the computer interprets in order to locate pages in the film. The computer holds an online index to the film, and an associated indexing query program which has Boolean operations for searching.

A more complete description of the system can be seen in Tymshare's brochure (XDOC -- 25233,).

So far most of the applications of the system have been limited to searching for numbers (social security, account, etc.), but it seems that the user has a wide range of types of identifiers he can choose to be indexed. Jake Feinler sees its indexing capabilities as being fairly standard, with the system's most promising feature its ability to store a great deal of information.

The microfilm terminal is bought as a kit and assembled by Tymshare itself. The cost to the customer of the microfilm display is 15K, and can be accompanied by a printer for 10K, bringing the total cost of an installation up to 25K. The printer is a Xerox-like unit.

demonstration of Tymshare's Microtym System, 4 Feb 75

Typical customer applications of the system are described in (XDOC -- 25234,) and (XDOC -- 25235,).

7

Although one customer plans to have four terminals, it is more typical for each customer to have a single installation, with information stored in one place; since the cost per installation is so high, the system is not well suited to document dissemination purposes.

8

After the demonstration, Doug, Jake and Dirk went to lunch with Mr. Sullivan. The conversation centered on the way Tymshare has evolved into a dynamic marketplace for customers' services to each other, rather than just a vendor of Tymshare's own services.

9

Information for this journal item was gathered by talking to DVN and EJF.

10

Demonstration of Tymshare's Microtym system, 4 Feb 75

(J25399) 14-FEB-75 14:58;;; Title: Author(s): Jeanne M.
Leavitt/JML; Distribution: /SRI-ARC([INFO-ONLY]) MAP2([INFO-ONLY]
) SDP([INFO-ONLY]) PWO([INFO-ONLY]) ; Sub-Collections: SRI-ARC;
Clerk: JML; Origin: < LEAVITT, DEMO,NLS;3, >, 13-FEB-75 12:02
JML ;;;;####;

This morning I put on tape 0002 at ISI files as follows:

1

SOURCE FILE(S):FORMAT1.;1
 3840 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):FORMAT2?FORMAT0.;1
 3840 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):FORMAT10.;1
 6912 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):FORMAT11.;1
 3840 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):FORMAT3.;1
 6144 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):FORMAT4.;1
 8448 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):FORMAT6.;1
 6144 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):FORMAT7.;1
 4608 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):FORMAT7.;1
 4608 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):FORMAT9.;1
 6144 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):FORMT2.;1
 3840 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):FORMT5?FRMATS.;1
 4608 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):FO\ORMAT8.;1
 6912 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):JAKEPROG.COM;3
 25344 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):JAKEPROG.COM;2;
 25344 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):JAKEPROG.COM;1;
 25344 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):JAKESITES.COM;1
 26112 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):JAKETABLES.COM;1
 24576 (DECIMAL) SIX-BIT BYTES.
 SOURCE FILE(S):

1a

The files having a name like "format" are the format library. The files beginning with the name "Jake" are small samples of the Network Resource Handbook for purposes of establishing format.

2

I put the files at ISI the evening before, when I reached the stage of hitting CR after giving a file name in MTA copy, the system returned to exec with the message "LOCATION = 400411". The night operator, though he had been through our tape handling procedure

Format Library and First Tries at Resource Handbook Go to COM

before, could not help me, When I tried again this morning, after delays because of ISI crashes, everything went fine.

3

• Format Library and First Tries at resource Handbook Go to COM

(J25400) 14-FEB-75 15:29;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /JOAN([ACTION] dpcs notebook please) JAKE(
[INFO-ONLY]) KIRK([INFO-ONLY]) NDM([INFO-ONLY]) ;
Sub-Collections: DPCS SRI-ARC; Clerk: DVN;