

TRANSMITTAL TO: Ralph Alter

TRANSMITTAL TO: Ralph Alter
PCI Inc.
176 Second Ave.
Waltham, Massachusetts

FROM: Marcia Keeney (NIC)
Station Agent

1

At the request of Dave Walden I am sending ASS notes 1-4, 6, 7, 16,
26, 28, 30, 34, 37-39.

1a

Although you are not an active participant in the ASS group and
cannot receive all notes, a limited subset of the notes has been
approved by the authors for more wide-spread distribution; this
subset is enclosed for your perusal.

1b

MLK 15-AUG-73 14:59 17675

TRANSMITTAL TO: Ralph Alter

(J17675) 15-AUG-73 14:59; Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: MLK ;

TRANSMITTAL TO: Mario Gerla

TRANSMITTAL TO: Rom Banin
Systems Control, Inc.
260 Sheridan Avenue
Palo Alto, California 94306

FROM: Marcia Keeney (NIC)
Station Agent

1

At your request, I am sending NIC 4757 and NIC 7133.

1a

MLK/kk

1b

MLK 17-AUG-73 08:53 17676

TRANSMITTAL TO: Mario Gerla

(J17676) 17-AUG-73 08:53; Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: MLK ;

TRANSMITTAL TO: Rom Banin

TRANSMITTAL TO: Keith K.L. Luke
University of Hawaii
THE ALOHA SYSTEM
2540 Dole Street
Honolulu, Hawaii 96822

FROM: Marcia Keeney (NIC)
Station Agent

1

Your name was entered today in the IDENTFILE of the Network Information Center. Enclosed is a copy of that entry. It will appear as such in the next update to the Network Directory (NIC 5150). If anything in the entry is incorrect, please notify Marcia Keeney at the NIC and she will correct it.

1a

MLK 17-AUG-73 08:50 17677

TRANSMITTAL TO: Rom Banin

(J17677) 17-AUG-73 08:50; Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: MLK ;

TRANSMITTAL TO: Keith K.L. Luke

TRANSMITTAL TO: Keith K.L. Luke
University of Hawaii
THE ALOHA SYSTEM
2540 Dole Street
Honolulu, Hawaii 96822

FROM: Marcia Keeney (NIC)
Station Agent

1

Your name was entered today in the IDENTFILE of the Network Information Center. Enclosed is a copy of that entry. It will appear as such in the next update to the Network Directory (NIC 5150). If anything in the entry is incorrect, please notify Marcia Keeney at the NIC and she will correct it.

1a

MLK 17-AUG-73 08:22 17678

TRANSMITTAL TO: Keith K.L. Luke

(J17678) 17-AUG-73 08:22; Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: MLK ;

TRANSMITTAL TO: Safwan A. Bengelloun

TRANSMITTAL TO: Safwan A. Bengelloun
Project MAC - DMCG Group
545 Technology Square
Cambridge, Massachusetts 02139

FROM: Marcia Keeney (NIC)
Station Agent

1

Your name was entered today in the IDENTFILE of the Network Information Center. Enclosed is a copy of that entry. It will appear as such in the next update to the Network Directory (NIC 5150). If anything in the entry is incorrect, please notify Marcia Keeney at the NIC and she will correct it.

1a

MLK 15-AUG-73 16:13 17679

TRANSMITTAL TO: Safwan A. Bengelloun

(J17679) 15-AUG-73 16:13; Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: MLK ;

TRANSMITTAL TO: John F. Haverty

TRANSMITTAL TO: John F. Haverty
Project MAC - DMCG Group
545 Technology Square
Cambridge, Massachusetts 02139

FROM: Marcia Keeney (NIC)
Station Agent

1

Your name was entered today in the IDENTFILE of the Network Information Center. Enclosed is a copy of that entry. It will appear as such in the next update to the Network Directory (NIC 5150). If anything in the entry is incorrect, please notify Marcia Keeney at the NIC and she will correct it.

1a

MLK 16-AUG-73 15:45 17680

TRANSMITTAL TO: John F. Haverty

(J17680) 16-AUG-73 15:45; Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: MLK ;

TRANSMITTAL TO: Peter M. Allaman

TRANSMITTAL TO: Peter M. Allaman
Project MAC - DMCG Group
545 Technology Square
Cambridge, Massachusetts 02139

FROM: Marcia Keeney (NIC)
Station Agent

1

Your name was entered today in the IDENTFILE of the Network Information Center. Enclosed is a copy of that entry. It will appear as such in the next update to the Network Directory (NIC 5150). If anything in the entry is incorrect, please notify Marcia Keeney at the NIC and she will correct it.

1a

MLK 17-AUG-73 08:10 17681

TRANSMITTAL TO: Peter M. Allaman

(J17681) 17-AUG-73 08:10; Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: MLK ;

TRANSMITTAL TO: Rom Banin

TRANSMITTAL TO: L. Peter Deutsch
Xerox PARC
3180 Porter Drive
Palo Alto, California 94304

FROM: Marcia Keeney (NIC)
Station Agent

1

At your request, I am sending NIC 5480.

1a

MLK/kk

1b

MLK 17-AUG-73 09:14 17684

TRANSMITTAL TO: Rom Banin

(J17684) 17-AUG-73 09:14; Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: MLK ;

TRANSMITTAL TO: L. Peter Deutsch

TRANSMITTAL TO: Mario Gerla
Network Analysis Corporation
Beechwood, Old Tappan Road
Glen Cove, New York 11542

FROM: Marcia Keeney (NIC)
Station Agent

1

At your request, I am sending NIC 16523, NIC 16521 and NIC 16520.

1a

MLK/kk

1b

TRANSMITTAL TO: L. Peter Deutsch

(J17685) 17-AUG-73 08:56; Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: MLK ;

TRANSMITTAL TO: H. Kinslow

TRANSMITTAL TO: Dave J. Egli
U. S. Army Electronics Command
AMSEL-GG-C
Fort Monmouth, New Jersey 07703

FROM: Marcia Keeney (NIC)
Station Agent

1

Your name was entered today in the IDENTFILE of the Network Information Center. Enclosed is a copy of that entry. It will appear as such in the next update to the Network Directory (NIC 5150). If anything in the entry is incorrect, please notify Marcia Keeney at the NIC and she will correct it.

1a

MLK/kk

1b

MLK 17-AUG-73 09:24 17686

TRANSMITTAL TO: H. Kinslow

(J17686) 17-AUG-73 09:24; Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: MLK ;

my first journal - the cherry is busted

this is not going the way i expected it to. i did not expect to submit text at this point. all i have done so far is to give the ejsm bit. but, no matter perhaps the thing knows what in hell it is doing.

1

my first journal - the cherry is busted

(J17687) 6-JUL-73 11:23; Title: Author(s): Edmund J. Kennedy/EJK;
Distribution: /JHB JLM DLS; Sub-Collections: RADDC; Clerk: EJK;

Letter to Mr. A. Kenneth Showalter

Mr. A Kenneth Showalter
Navy Department ONR 1, Code 437
Arlington, Va. 22217

1

Dear Mr. Showalter:

1a

This letter transmits the Annual Report covering the period 15 April 1972 through 15 April 1973 on contract N00014-70-C-0302. Enclosed you will find three copies. Additional copies will be sent via the normal distribution list.

1b

Sincerely,

Douglas C. Engelbart, Director
Augmentation Research Center

1c

DCE:kk

1d

Enclosures

1e

Letter to Mr. A. Kenneth Showalter

(J17688) 6-JUL-73 14:43; Title: Author(s): Douglas C. Engelbart/DCE;
Distribution: /JBN RWW; Sub-Collections: SRI-ARC; Clerk: KIRK;
Origin: <KELLEY>ARCTrans.NLS;1, 6-JUL-73 14:24 KIRK ;

Letter to Mr. A. Kenneth Showalter

Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

A. Kenneth Showalter
Office of Naval Research
Information Systems Programs
800 North Quincy Street
Arlington, Virginia 22217

Dear Mr. Showalter:

Mr. A. Kenneth Showalter
Navy Department ONR 1, Code 437
Arlington, Va. 22217

1

Dear Mr. Showalter:

1a

Enclosed are copies of three of the papers prepared in connection with work carried out on ONR N00014-70-C-0302.

1b

These papers are among those referenced in the 1972-1973 annual report on this project, and are sent to you as further useful product from the project.

1c

ARC 14851, D. C. Engelbart, "Design Considerations for Knowledge Workshop Terminals." Stanford Research Institute, Menlo Park, California, 14 March 1973. 19p.

1d

ARC 14724, D. C. Engelbart, R. W. Watson, and J. C. Norton, "The Augmented Knowledge Workshop." AFIPS Proceedings, National Computer Conference, June 1973.

1e

ARC 12445, D. C. Engelbart, "Coordinated Information Services for a Discipline- or Mission-Oriented Community." 2nd Annual Computer Communications Conference, January 24-25, 1973, at California State University, San Jose, California. [Describes RINS efforts to date].

1f

Sincerely,

Jeanne B. North
Project Leader
ONR N00014-70-C-0302

Letter to Mr. A. Kenneth Showalter

JBN/kirk

Enclosures

Letter to Mr. A. Kenneth Showalter

(J17689) 6-JUL-73 15:08; Title: Author(s): Jeanne B. North/JBN;
Distribution: /DCE RWW; Sub-Collections: SRI-ARC; Clerk: KIRK;
Origin: <KELLEY>ARCTrans.NLS;1, 6-JUL-73 14:24 KIRK ;

Comments and Questions on the NIC Cost Study (17156,)

The NIC cost study reported in 17156 seems a splendid start on an analysis of times and costs of the NIC.

1

Now that we are seriously considering how we can cut the costs, as contrasted to our earlier efforts to justify a bigger budget for an expanded operation, I would like to see a study slicing the work related to serving Associates from the work necessary to serve online Sites, similar to the analysis of Group mailings, but with the idea of what could be saved by eliminating the Associate mailings completely, and then making a charge for this service to Associates.

2

In addition, the following questions occur to me in regard to the report.

3

NIC-PSO Time Summary

4

What are the In Person communications? With other NIC staff, with non-NIC ARC staff, other, or a mix?

4a

What are System communications?

4b

In regard to the column of estimates. were these independently arrived at before the study, or after, and what relation do they bear to the times reported? In many cases they are quite different from the study times. In some cases there is a possibility that the definition was different?

4c

What is the time used for Functional Documents as differentiated from Document Preparation? Is collating of these documents the main factor, or is creation, or is proofing?

4d

Where are the times for changes in mailing lists, and for answers to document requests recorded?

4e

Is the time reported as Journal the time spent in submitting to the Journal or the time spent preparing Journal output for mailing?

4f

Xerox Costs

5

What is the relation of the \$200 to \$400 increase in Xerox costs to the manpower spent?

5a

What elapsed time was saved?

5b

Other Costs

6

Why is COM development (MISC) charged to the NIC?

6a

Comments and Questions on the NIC Cost Study (17156,)

The September total should be reduced by the \$5000 or more it is blown up by the Rep-Pro lumped bill, before the context is lost?

6b

Number of Journal items submitted

7

A count, or at least an estimate, of the distribution of Journal items, and an estimate of the average number of pages, is needed to get an idea of the load the Journal imposes?

7a

A breakdown of the Journal activity carried on by online Site members as differentiated from Journal work resulting from distribution to Associates is needed?

7b

Comments and Questions on the NIC Cost Study (17156,)

(J17690) 6-JUL-73 15:06; Title: Author(s): Jeanne B. North/JBN;
Distribution: /MDK SRL RWW; Sub-Collections: SRIARC NIC; Clerk: JBN;
Origin: <NORTH>NICCOSTS.NLS;1, 6-JUL-73 13:27 JBN ;

Status of COM: Meeting with Jerry Shaw and Tony Sunley of Alphanumeric

On Monday, July 2, Tony Sunley visited ARC in an effort to sell their service in printing from our COM tapes (JJournal,17445,9). He brought with him not the programmer mentioned in (JJournal,17482,1) but Jerry Shaw the president of Alphanumerics. 1

Shaw spent about an hour explaining that Alphanumeric is the software house among three Volt subsidiaries that work in this field. Of the other two branches, Autologic produces photo typesetting hardware used by several newspapers and similar large volume printing businesses (the ASP-3 and the cheaper, faster, and more powerful ASP-4,) and Volt Technical runs shops full of girls typing bulk material into online storage at up to 120 wpm. 2

Shaw left us temporarily a book of thier fonts, and permanently a Journal article on the Alphanumeric Photocomposition System system (XDOC 16542) and a brochure on th ASP-4, (XDOC 16543) although they use the ASP-3 themselves. 3

Shaw had not done his homework. After about an hour he asked "Isn't your output the same as ISI's?" If he had read (Journal,14093,), which we provided Sunley sometime before, in the most cursory manner he would have known the answer and hence that his sales and technical job was quite different from what he imagined. 4

Relative to our needs: they print from tapes containing only character streams for \$ 3.50 a page plus offset and paper. That 3.50 is based on CPU time and does not include a microfilm stage. It is about three times what DDSI charges us. Our tapes, of course, contain many formatting instructions that supersede those Alphanumerics is now supplying to most customers. It is not clear whether it will be cheaper or more expensive for them to work from our tapes. 5

In the end we gave them a tape and a COM test printout (Journal,12066,) for that tape. We asked them to take it back to Los Angeles to discover 1) if they could print it; 2) how much it will cost. We gave them Elizabeth's number for technical questions. 6

Shaw is very much aware of the ARPA Net and is out to get it as a market. We supplied them with documentation and some general information about the Net. 7

Status of COM: Meeting with Jerry Shaw and Tony Sunley of
Alphanumeric

(J17691) 6-JUL-73 15:16; Title: Author(s): Dirk H. Van Nouhuys/DVN;
Distribution: /DCE RWW JCN NDM JMB JCN JBN JAKE EKM; Sub-Collections:
DPCS SRI-ARC; Clerk: DVN;
Origin: <VANNOUHUYS>SUNLEYVISIT.NLS;2, 6-JUL-73 15:11 DVN ;

Also Random

Answers to your 6-July mail to me.

Also Random

Mike ...Hello, Greetings, and all that.

1

The reason for the dead silence from this end despite your correspondence flow, was that I was up to my nose in preparing for a visit from Larry Roberts. He came, saw, and conquered ARC on Thursday July 5th, so things are back to their usual paranoid normal. Now I can reply to your notes:

2

1) The general technique for getting an NLS file into an output-suitable -for-FTPing form is extremely simple. It requires only three steps:

3

a) Load the NLS file you want to convert to sequential form, and position the NLS "text control marker" at the statement you want the output to start from.

3a

```
*Load File <MIT-MULTICS>BLAH<cr>
*<sp>A: .1<cr>
```

3a1

The syntax for positioning the control marker is "space" (that's the "<sp>") followed by the statement address. The statement address must be preceded by a "period". ("A:" is an NLS prompt to remind you that an address is needed.)

3a2

In this example, the statement address I've used is Statement Number 1, which is always the first statement in an NLS file (except for the "origin" statement, #0, which you probably don't want to see). If you need to know more about the use of statement addresses, let me know.

3a3

b) Set the "viewspecs" you want to be in effect. The Output Sequential command obeys ALL viewspecs.

3b

```
*View specs Change<cr>
V: nyw<cr>
```

3b1

The command to set viewspecs is "vc", followed by "carriage return" (that's the "<cr>"). ("V:" is an NLS prompt to remind you that viewspecs may be typed in at that point.)

3b2

The viewspecs you will probably want are those I've indicated, namely:

- n to suppress output of statement addresses;
- y to cause one blank line to be inserted after each NLS statement;
- w to cause the entire structure of the NLS file to be output.

3b3

If you want to know more about viewspecs, let me know.

Also Random

Especially you should know that to get statement addresses outputted instead of suppressed, use "m" instead of "n". And to avoid inserting a blank line after each statement, use "z" instead of "y". The upper and lower case distinctions for viewspecs are crucial.

3b4

c) Use the "output sequential" command.

3c

*Output Sequential Upper Case?No File F: MIKESTUFF<cr>

3c1

The command is "OSN", meaning "produce a Tenex sequential file from the currently loaded NLS file, and preserve the upper and lower case distinctions in the file". ("File F:" is an NLS prompt reminding you to type the name that you want the new output file to have, after it's created.)

3c2

The filename you assign may have up to 39 alphanumeric characters, and some special characters (definitely not including "period" or "semicolon", and probably not including some others that I'm not aware of). In the above example, the name I chose of course is "MIKESTUFF", which I terminated (as you must do also) with a carriage return.

3c3

An alternative to preserving upper and lower case is to force all text to be in upper case. This is done by typing "OSY" instead of "OSN". Note (as you will see) that the "N" and the "Y" of these two commands actually is the "no/yes" response to the NLS prompt question, "Upper Case?".

3c4

The output format is one LINE per line of NLS file. A line is 72 characters long. It terminates with <cr><lf>. NLS structure is mimicked by inserting a suitable number of blanks at the beginning of each line. If you want to suppress this dandy feature, use viewspec "B".

3c5

2) "Feast or Famine" is a marvelous document.

4

The concept of a Resource Notebook as the primary source of Host information will die, if users don't feed it complete, timely information AND use it AND tell the ARPA dollar disseminators that it's a good thing. If the concept does die, then the Kantrowitzes will REALLY be inundated with requests for information.

4a

As Jim White has said, the number one problem to be avoided in information "surveys" is that the surveyors may not know enough about what they are asking, so their questions tend to be inane or patently unanswerable. Hopefully, the Resource Notebook avoids this pitfall.

4b

Also Random

P.S. I liked your idea about microfiche.

4c

3) I don't know anything about Jean Iseli's notes yet, Mike, but I'm sure he'll pass the information on to me and when he does I'm sure I'll be asking you for comments.

5

4) The NIC load problem was undoubtedly relieved when the classes ended, but that's not the last of it. I'm preparing a document to go to Engelbart, Watson, and Norton (it will include your note to Watson, verbatim), and will publish it soon. Got delayed by Roberts' visit.

6

Things are going o.k. here. I'm still very much interested in the concept of Resource Sharing Research, and will push that after I hear from Iseli. But I'm rather afraid it will get a cold reception from ARPA. If you have any ideas on that score, I would really appreciate them. (P.S. Was cheered by your "super" response: Glad you liked that.)

7

Regards, ... Mike Kudlick

8

Also Random

(J17692) 6-JUL-73 15:30; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /MAP; Sub-Collections: SRI-ARC; Clerk: MDK;
Origin: <KUDLICK>MAP.NLS;2, 6-JUL-73 15:24 MDK ;

A Thank You To Dean Meyer

I would like to give a grateful thank you and official recognition to Dean Meyer's help over the past several months in solving problems by writing or finding programs that cut many hours off long and difficult jobs. My thanks to you

Sincerely, Mil Jernigan

1

A Thank You To Dean Meyer

(J17693) 6-JUL-73 16:54; Title: Author(s): Mil E. Jernigan/MEJ;
Distribution: /NDM DCE JCN MDK RWW DVN JI; Sub-Collections: SRI-ARC NIC;
Clerk: MEJ;
Origin: <JERNIGAN>THANKS.NLS;1, 6-JUL-73 16:50 MEJ ;

Request for proper RFC journal format.

For the following information in RFC notes, please change the
directives placed in the Origia statement by the Journal as shown.

1

Request for Comments 123
NIC 12345

Authorname (IDENT)
Date

Text of Title

**1a

Thankyou.

2

Request for proper RFC journal format.

(J17694) 6-JUL-73 21:12; Title: Author(s): Jeanne B. North/JBN;
Distribution: /MDK NP JDH; Sub-Collections: SRI-ARC NP; Clerk: KIRK;

John,

Dave Wood of our staff, mitre-tip, has adapted Jerry Powells developed Interprocess communication programs for performance measurement work - The original interprocess communication experiment is still working although employing different computers and is maintained by Susan Poh (ssp). Unfortunately, little documentation exists - in fact, many of the user level ncp interface routines may be of use to you in your work [think these are called net, net1, etc.] You might find it worth your while to contact susan and dave for information which they will probably be delighted to supply - susan is probably most easily contacted through sndmsg to poh@USC-ISI and Dave to MITRE@CASE-10 - dave rarely gets into NLS and susan is not daily in her access to NLS so would recommend other approach - will send this to susan for reference - and will try to talk to dave to expect message from you. I took the liberty of answering this note to ernie because he is very much tied up right now on another effort and I felt that it was important to provide a response. Please do not hesitate to contact me if there are any problems or if you would like other information relative to our efforts. Incidentally, we are developing an on-line network resource directory and query capability which may be of interest to you. The capability is briefly described in RESDOC.NLS under mITRE-TIP. It is being implemented by Jack Benoit and Erika Perez and will imploy Susan Poh's server characterizations for a data base [you probably have seen a draft of the latter and I will send you a copy of the finished product shortly which will be called Network Users Handbook. Jack and ERIKA may be contacted through <JEDIR> at CASE-10 - this is their joint directory. The effort is being coordinated with Mike Kudlick at NIC and to a lesser extent with BTHOMAS at BBN - possible plans call for interfaces to RSEXEC and to NIC Query Language. John, Mike Kudlick may contact you shortly to solicit your cooperation in an

(continuation-with possible discontinuity)

[please let me know if you did not get first part - system has changed]

.....to solicit your cooperation in a network effort to create an on-going source of support for network research and development towards greater resource sharing. I suggested your name in the belief that you were interested in the area and would contribute to the effort. Hope you do not mind.

Sincerely,

Jean

1

**42 17696

(J17696) 7-JUL-73 05:42; Author(s): Jean Iseli/JI; Distribution:
/JRP SSP; Sub-Collections: NIC; Clerk: JI;

Content Analyzer Primer

Hard copy is available from Marcia Keeney.
The current NLS version can always be found through
<userguides>arclocator.

** - 73 08:58 17698

CONTENT ANALYZER PRIMER

SRI-ARC

12 JUL 73

Augmentation Research Center

STANFORD RESEARCH INSTITUTE
MENLO PARK, CALIFORNIA 94025

Content Analyzer Primer

INTRODUCTION

1

NLS provides a mechanism for moving around in and between files. In combination with viewspecs, the user has a great deal of control over the view he gets of his file.

1a

See (userguides, tnls-text, 4) for TNLS or
(userguides, dnls-viewing, 1) for DNLS.

1a1

However, there are times when one wishes to control his view of the file to an even greater degree. For example, one may wish to view, print, or copy only those statements containing a certain word or string. This is made possible by an NLS feature called the "Content Analyzer". This brief document is intended to introduce the novice user to the Content Analyzer. More extensive documentation can be found in (userguides, 110, 1).

1b

Before a statement is printed, it is checked to see if it passes certain requirements. The viewspecs are an example of one type of requirement. The user may set up additional requirements (or "filters") by using the content analyzer. When the filter is put into effect by the proper viewspecs, only those statements which pass the filter will be printed.

1c

The Content Analyzer filter is created by typing in (or selecting from the text in a file) a string of a special form. This string is called the "Content Analyzer Pattern". The next section will describe the elements which make up Content Analyzer Patterns, and the third will explain how to put them to use. Some examples are given at the end.

1d

Some quick examples of content analyzer patterns:

1e

'(\$LD ') will show all statements whose first character is an open parenthesis, then any number of letters or digits, then a close parenthesis.

1e1

["blap"] will show all statements with the string "blap" in them.

1e2

SINCE (3-JUN-73 00:00) will show all statements edited since June 3, 1973

1e3

Content Analyzer Primer

CONTENT ANALYZER PATTERNS

2

Content Analyzer Patterns describe certain things the system must check before printing a statement; the Content Analyzer searches a statement from the beginning, character by character, for described elements. As it encounters each element of the pattern, the Content Analyzer checks the statement for the occurrence of that pattern; if the test fails, the whole statement is failed (unless there was an "or" condition, as described later) and not printed; if the test is passed, an imaginary marker moves on to the next character in the statement, and the next test in the pattern is considered.

2a

Elements of Content Analyzer Patterns

2b

The pattern may include any sequence of the following elements; the Content Analyzer moves the marker through the statement checking for each element of the Pattern in turn:

2b1

Literal Strings

2b2

'c the given character (e.g. a lower case c)
 "string" the given string (may include non-printing characters)

Character classes

2b3

CH any character
 L lowercase or uppercase letter
 D digit
 UL uppercase letter
 LL lowercase letter
 ULD uppercase letter, or digit
 LLD lowercase letter, or digit
 LD lowercase or uppercase letter, or digit
 NLD not a letter nor digit
 PT any printing character
 NP any nonprinting character

Special characters

2b4

SP a space
 TAB tab character
 CR a carriage return
 LF line feed character
 EOL a carriage return (followed by line feed)
 ALT alt mode character

Special elements

2b5

ENDCHR the end of every statement
 TRUE is true without checking anything in statement
 ID= id statement created by user whose ident is given
 ID# id stmt. not created by user whose ident is given
 BEFORE (d-t) statement edited before given date and time
 SINCE (d-t) statement edited since given date and time

Content Analyzer Primer

e.g. BEFORE (1 JUN 1973 00:00) ;

The date and time must both appear, in the parentheses.
It accepts almost any reasonable date and time syntax.

Examples of valid dates:

17-APR-70	17 APRIL 70
APR-17-70	17/5/1970
APR 17 70	5/17/70
APRIL 17, 1970	

Examples of valid times:

1:12:13	1234:56
1234	1:56AM
1:56-EST	1200NOON
16:30 (4:30 PM)	
12:00:00AM (midnight)	
11:59:59AM-EST (late morning)	
12:00:01AM (early morning)	

Scan direction

<	set scan direction to the left
>	set scan direction to the right

2b6

The default, re-initialized for each new statement, is scan to the right.

Combining Elements

2c

These elements may be combined in any order. Spaces within the pattern are ignored (except in literal strings) so they may be used to make reading easier for the user. Several operators can modify the elements:

2c1

NUMBER -- multiple occurrences

2c2

A number preceding an element other than one of the "Special elements" means that the test will succeed only if it finds exactly that many occurrences of the element. If there aren't that many, the statement will be rejected. Even though there may be more, it will stop after that many and go on to check the next element in the pattern.

3UL means three upper case letters

\$ -- range of occurrences

2c3

A dollar sign preceding (\$) an element other than the "Special elements" means "any number of occurrences of". This may include zero occurrences.

\$'- means any number of dashes

Content Analyzer Primer

A number in front of the dollar sign sets a lower limit.
 3\$D means three or more digits

A number after the dollar sign sets an upper limit for the search. It will stop after that number and then check for the next element in the pattern, even if it could have found more.

\$3LD means from zero to three letters or digits
 5\$7PT means from 5 to 7 (inclusive) printing characters

[] -- floating scan

2c4

This is the way to do other than a character by character check. When an element or series of elements is enclosed in square brackets [], the Content Analyzer will scan a statement until the element is found. (If the element is not in square brackets, the whole statement fails if the very next character or string fails the test of the next element.) This test will reject the statement if it can't find the element anywhere in the statement. If it succeeds, it will leave the marker just after the string satisfying the contents of the square brackets.

"start" means check to see if the statement begins with the string "start" (or, if it is in the middle of a pattern, check the next 5 characters to see if they are s t a r t).

["start"] means scan until it finds the string s t a r t.

[3D] means scan until it finds three digits.

[3D ':] means scan until it finds three digits followed by a colon

- -- negation

2c5

If an element is preceded by a minus sign -, the statement will pass that test if the element does not occur.

-LD means other than a letter or digit, such as punctuation

Content Analyzer Primer

More sophisticated patterns can be written by using the logic features of the Content Analyzer. Generally, an expression is executed left to right. The following operations are done in the given order:

()
/
NOT
AND
OR

2d

()

2d1

Parentheses (and square brackets for floating scans) may be used to group elements.

/

2d2

/ means "either or"; the element will be true if either element is true.

(3D L / 4D) means either three digits and a letter or four digits.

Sometimes you may want the scan to pass your marker over something if it happens to be there. "TRUE" is true without testing the statement. If the other tests fail, the imaginary marker is not moved.

(D / TRUE) will look for a digit and pass over it, or just go on to the next test element in the pattern if it doesn't find a digit.

Since expressions are executed from left to right, it does no good to have TRUE as the first option.

NOT

2d3

NOT will be true if the element or group of elements enclosed in parentheses following the NOT is false.

NOT LD will pass if the next character is neither a letter nor a digit.

Since the slash is executed first, NOT D / 'h will be true if the next character is neither a digit nor the letter "h".

Content Analyzer Primer

AND

2d4

AND means both of the two separated groups of elements must be true for the statement to pass.

SINCE 3/6/73 AND ID#NDM means statements written since March 6, 1973 by other than NDM.

OR

2d5

OR means the test will be true if either of the separated elements is true. It does the same thing as slash, but after "AND" and "NOT" have been executed, allowing greater flexibility.

D AND LLD OR UL means the same as (D AND LLD) OR UL.
D AND LLD / UL means the same as D AND (LLD / UL).

While such patterns are correct and succinct, parentheses make for much clearer patterns. Elements within parentheses are taken as a group; the group will be true only if the statement passes all the requirements of the group.

Content Analyzer Primer

HOW TO USE THE CONTENT ANALYZER

3

Content Analyzer Patterns may be entered in two ways:

3a

CA means "Command Accept", a control-D or,
in TNLS, a carriage return

3a1

- 1) They may be typed in from the keyboard,

3a2

G[oto] P[rograms] C[ontent Analyzer Pattern compile] SP
pattern CA

Viewspect j must be on (i.e. Content Analyzer off) when
typing in a pattern.

- 2) They may be addressed from a file.

3a3

G[oto] P[rograms] C[ontent Analyzer Pattern compile] ADDR
CA

In this case, it will begin reading the pattern from the
first character addressed and continue until it finds a
semicolon ; so be sure to put a semicolon at the end of the
pattern.

Entering a Content Analyzer Pattern automatically does two
things:

3b

- 1) It reads the characters in the pattern and compiles
executable instructions from them making a small user program;
and

3b1

- 2) It takes those instructions and "institutes" them as the
current Content Analyzer search program, deinstitutioning any
previous pattern.

3b2

"Instituting" a program means selecting it as the one to
take effect when the Content Analyzer is turned on. You
may have more than one program compiled but only one
instituted.

When a pattern is deinstitutioned, it still exists in your
program buffer and may be instituted again at any time with
the command

G[oto] P[rograms] I[nstitute program] program-name CA
[as] C[ontent Analyzer] CA

The programs may be referred to by number instead of

Content Analyzer Primer

name. They are numbered sequentially, the first entered being number 1.

All the programs you have compiled and all you have instituted may be listed with the command

G[oto] P[rograms] S[tatus type] CA

Programs may build up in your program buffer until you have no room for additional patterns. To clear the program buffer, type

G[oto] P[rograms] R[eset] CA

We recommend that you do this before each new pattern, unless you specifically want to preserve previous patterns.

To invoke the Content Analyzer:

3c

When viewspec i is on, the instituted Content Analyzer search program (if any) will check every statement before it is printed.

3c1

If a statement does not pass all of the requirements of the Content Analyzer Pattern, it will not be printed.

In DNLS, if no statements from the CM on pass the Content Analyzer, the word "Empty" will be displayed.

Note: You will not see the normal structure since one statement may not pass the Content Analyzer although its substatement does.

When viewspec k is on, the instituted Content Analyzer search program will check until it finds one statement that passes the requirements of the pattern. Then, the rest of the output (branch, plex, etc.) will be printed without checking the Content Analyzer.

3c2

When viewspec j is on, no Content Analyzer searching is done. This is the default state. Note that i, j, and k are all mutually exclusive.

3c3

Content Analyzer Primer

Most of the commands ignore the Content Analyzer in their editing. There are two important exceptions:

3d

Substitute

3d1

The Substitute command will only edit those statements passing the Content Analyzer when viewspec i is on.

Execute Assimilate

3d2

The Execute Assimilate command is like the copy command except that it does check the Content Analyzer. Only those statements passing the Content Analyzer will be copied by the Execute Assimilate command when viewspec i is on. This allows one to pick only certain statements from a group, plex, or branch, and put them elsewhere, in the same or a different file.

Content Analyzer Primer

EXAMPLES

D 2\$LD / ["CA" / "Content Analyzer"]

This pattern will match any of three types of statements: those beginning with a numerical digit followed by at least two characters which may be either letters or digits, and statements with either the patterns "CA" or "Content Analyzer" anywhere in the statement.

Note the use of the brackets to permit a floating scan -- a search for a pattern anywhere in the statement. Note also the use of the slash for alternations.

BEFORE (25-JAN-72 12:00)

This pattern will match those statements created or modified (whichever happened most recently) before noon on 25 January 1972.

ID = HGL OR ID = NDM

This pattern will match all statements created or modified (whichever happened most recently) by users with the identifiers "HGL" or "NDM".

[(2L (SP/TRUE) /2D) D '- 4D]

This pattern will match characters in the form of phone numbers anywhere in a statement. Numbers matched may have an alphabetic exchange followed by an optional space (note the use of the TRUE construction to accomplish this) or a numerical exchange.

Examples include YU 4-1234, YU4-1234, and 984-1234.

[ENDCHR] < "cba"

This will pass those statements ending with "abc". It will go to the end of the statement, change the scan direction to left, and check for the characters "cba". Note that since you are scanning backwards, to find "abc" you must look for "cba". Since the "cba" is not enclosed in square brackets, it must be the very last characters in the statement.

17698 Distribution

Janet W. Troxel, Connie D. Rosewall, Linda M. Webster, Anita L. Coley, Carol J. Mostrom, Duane L. Stone, James H. Bair, John L. McNamara, John S. Perry,
 Travis L. Greening, Robert Silberski, Marcia Lynn Keeney, Diane M. MacNeil, W. A. Martin, Margaret A. (Maggie) Bassett, J. A. Smith, Leina M. Boone, Diana L. Jones, Nancy J. Neigus, Terry Sack, Frances A. (Toni) McHale, Lucille C. (Lucy) Gilliard, Ed J. Collins, Gary Blunck, John F. Heafner, Kathy Beaman, David J. King, C. Jane Moody, Sue Pitkin, Jerry Fitzsimmons, Gregory P. Hicks, Gloria Jean Maxey, Roberta J. Peeler, Craig Fields, Ermalee R. McCauley, Margaret Iwamoto, Dee Larson, Robert E. Doane, Brenda Monroe, Jeanne B. North, Pam J. Klotz Cutler, Barbara Barnett, Stan Golding, Steve G. Chipman, John P. Barden, Martha A. Ginsberg, Shirley W. Watkins
 Thomas O'Sullivan, Sol F. Seroussi, Scott Bradner, Robert H. Thomas, John C. Thomas, Michael J. Romanelli, Ronald M. Stoughton, A. D. (Buz) Owen, Robert L. Fink, Jaacov Meir, Jeanne B. North, Steve D. Crocker, Thomas F. Lawrence, John W. McConnell, James E. (Jim) White, A. Wayne Hathaway, Patrick W. Foulk, Richard A. Winter, Harold R. Van Zoeren, Alex A. McKenzie, Joel M. Winett, Abhay K. Bhushan, Thomas N. Pyke, B. Michael Wilber, Edward A. Feigenbaum, Robert T. Braden, James M. Pepin, Barry D. Wessler, John T. Melvin, Jackie A. Priest, Terence E. Devine, Paul M. Rubin, Paula L. Cotter, O. A. Hansen, H. A. Thompson, Dan Dechatelets, Nancy C. Thies
 Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews, Terence E. Devine, David J. King, William L. Andrews, Milton H. Reese, Kenneth M. Brandon, Lou C. Nelson, Jeffrey P. Golden, Richard B. Neely, Dan Odom, Ralph E. Gorin, Robert G. Merryman, P. Tveitane, Adrian V. Stokes, David L. Retz, Reg E. Martin, Gene Leichner, Jean Iseli, James E. (JED) Donnelley, William Kantrowitz, Michael S. Wolfberg, Yeshiah S. Feinroth, James Hurt, Anthony C. Hearn, Eric F. Harslem, Robert M. (Bob) Metcalfe, Bradley A. Reussow, Daniel L. Kadunce, George N. Petregal, Michael B. Young, Michael A. Padlipsky, Schuyler Stevenson, L. Peter Deutsch, John Davidson
 Rodney A. Bondurant, Jeanne M. Beck, Mark Alexander Beach, Judy D. Cooke, Marcia Lynn Keeney, Carol B. Guilbault, Susan R. Lee, Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake) Feinler, Kirk E. Kelley, N. Dean Meyer, Kay F. Byrd, James E. (Jim) White, Diane S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Linda L. Lane, Marilyn F. Auerbach, Walt Bass, Douglas C. Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, Jeanne B. North, James C. Norton, William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

Content Analyzer Primer

(J17698) 9-JUL-73 08:58; Title: Author(s): Stanford Research
 Institute /ESRI-ARC; Distribution: /SRI-ARC NLG NSAG DLS JHB JLM JSP;
 Sub-Collections: SRI-ARC NLG NSAG; Clerk: NDM;
 Origin: <USERGUIDES>L10-CONTENTANALYZER.NLS;7, 9-JUL-73 08:37 NDM ;

The problem with <US> characters on receiving MAIL from the NIC has definitely gone away. The format of thee mail you send looks good now. When can network users start using non-nls mail facility to send messages using NIC idents instead of mailbox addresses? I have been reading the Mail Protocol proposal. My comments will follow shortly

17699 Distribution

James E. (Jim) White, Michael D. Kudlick,

**40 17699

(J17699) 9-JUL-73 08:40; Author(s): Abhay K. Bhushan/AKB;
Distribution: /JEW MDK; Sub-Collections: NIC; Clerk: AKB;

Need for New Displays

I would like to have a meeting of the group addressed by this note dia kev meh chi Wed or Thurs depending on when Don comes down (I'll not be here Tues) to get an effort launched to make a recommendation on new displays.

Need for New Displays

Need for New Displays

During Larry Roberts visit we discussed getting new displays from several points of view. Larry strongly urged us to replace the existing Tasker system for several reasons:

The cost of maintenance of the Tasker is very expensive, roughly almost two men maintaining Tasker and equipment associated with it, IDC, XCORE etc.

He wants us to begin making plans to obtain our developmental computer power from the Utility or some such source (say 18 months from now); this implies that we need a stand alone display system.

We should have a reasonably low cost cluster system (from a commercial source) which we use ourselves and could recommend to Utility users.

We will probably have a range of capabilities, mostly alpha-numeric, a small number with graphics as well, possibly some with different fonts for document design etc.

The work of Don and Martin with the mouse and keyset box fit nicely into the picture we need to develop, what is needed is to give a higher priority to looking at the cluster problem also.

If the IMLAC code situation is under control I would like to move getting together a recommendation on a new display system as high priority.

Inorder to fit in with the next proposal, I would like to see if we couldn't get at least a priliminary recommendation within the next three weeks.

My knowledge is highly incomplete, but I know of the following places to beging looking for the actual display part, my assumption is that there will probably be a mini at the heart of the system for printer control as well.

International Displays Inc. (IDI)

IDI indicated to me at the NCC that they would consider giving us OEM rates since this system might go to others on the ARPANET.

ADAGE

ADAGE has a new cluster configuration which looked good.

Need for New Displays

Data Disc

1e3

I don't know anything about them

1e3a

Larry mentioned that Steve Crocker was trying to coordinate a video display buy being considered by Stanford and MIT, we should contact Steve about where all that stands.

1e4

17700 Distribution

Martin E. Hardy, Charles H. Irby, James C. Norton, Kenneth E. (Ken)
Victor, Don I. Andrews,

Need for New Displays

(J17700) 9-JUL-73 09:00; Title: Author(s): Richard W. Watson/RWW;
Distribution: /MEH CHI JCN KEV DIA; Sub-Collections: SRI-ARC; Clerk:
RWW;

More Information

I need to know your "Local Network Mailbox" address and "host" for the identfile. Can you send me this information? Either through the journal or send message -- I'm Keeney@SRI-ARC. Thank you. Marcia Keeney.

17701 Distribution
Alex A. McKenzie,

More Information

(J17701) 9-JUL-73 09:05; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /AAM; Sub-Collections: SRI-ARC; Clerk: MLK;

More Information is needed

I need to know your "local network mailbox" address and "host" for the identfile. Can you send me this information? You can reach me through the journal or send message -- I'm Keeney@ SRI-ARC. Thank you. Marcia Keeney.

1

17702 Distribution
Will R. Crowther,

More Information is needed

(J17702) 9-JUL-73 09:21; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /WRC; Sub-Collections: SRI-ARC; Clerk: MLK;

awh

I need to know your "local network mailbox address" and "host" for the identfile. Can you send me this information? You can reach me through the journal or send message -- I'm Keeney@SRI-ARC. Thank you.
Marcia Keeney.

1

17703 Distribution
A. Wayne Hathaway,

awh

(J17703) 9-JUL-73 09:30; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /AWH; Sub-Collections: SRI-ARC; Clerk: MLK;

More Information is Needed

I need to know your "local network mailbox" address and "host" for the identfile. Can you send me this information? You can reach me through the journal or send message to Keeney@SRI-ARC. Thank you.
Marcia Keeney.

1

17704 Distribution
Julie B. Moore,

More Information is Needed

(J17704) 9-JUL-73 09:33; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /JBM; Sub-Collections: SRI-ARC; Clerk: MLK;

DCE 9-JUL-73 17:43 17705

Visit Log: 3 May 73, Tom O'Sullivan, ARPA HRRO

Visit Log: 3 May 73, Tom O'Sullivan, ARPA HRRO

Much of the day Tom spent with Dave Brown, Dean Brown, and Dave Brandin. He spent a lunch period with Dick Watson, Jim Norton, Mike Kudlick, Dirk Van Nouhuys and me (at ARC picnic in the park), and then returned later in the afternoon to talk with me, Mike and Jim some more.

1

We have extensive prior contact with Tom, and some directly with his current boss, Col. Austin Kibler -- relatively recent contacts are reported in Journal items:

- (12440,), 19 Oct 72, DCE visited Col Kibler at ARPA
- (12438,), 8 Nov 72, Tom visited ARC
- (12439,), 16 Nov 72, Tom Called DCE
- (12441,), 1 Dec 72, Col Kibler visited ARC
- (12447,), 13 Dec 72, Tom visited ARC
- (12449,), 13 Mar 73, DCE and Tom phone call (2-p report)

2

Also, Jim and I both have "met" Tom on line, via linking, fairly often since he Joined HRRO on Feb 1.

2a

His direct interest bears upon two activities, both of which involve the CBI Community that HRRO is supporting, and which they plan to move onto the ARPANET over the months ahead. (The above Journal items provide a fair amount of background to this CBI Community plan.)

3

One problem: at many (each?) of these contractor sites they will install at least one PLATO terminal, for use and experimentation with the central PLATO support system in Illinois.

3a

PLATO terminals are designed to be coupled through a very special communication system, engineered just for support of widely distributed PLATO terminals (making clever use of sharing common phone links etc.). In fact, the whole PLATO system is highly and intricately (beautifully) coordinated over-all. E.g., their terminals are very specialized -- among other special features, they utilize the plasma-panel displays whose initial development emerged from the PLATO project to satisfy the need for a cheap, versatile display; and the terminals also come equipped with capability for storage and selective playback of speech, as well as rear-projection microfiche (specially designed) projections which the computer can control.

3a1

HRRO are planning to develop interface means for these terminals in some way so as to use ARPANET for linking these terminals to the support system.

3a2

In association with this, they want to see what it would take to make these terminals also useable (when connected to the

Visit Log: 3 May 73, Tom O'Sullivan, ARPA HRRO

ARPANET) for "Workshop" applications. (Our immediate thought was the "mouse box" and the extensions that might be feasible for it to handle this type of compatibility problem.

3a3

Tom mentioned that the display font is software controlled; he believes that the terminal can store a 127-character font. This part would be satisfactory, probably. (He mentions that they do many clever things with specially designed "font" where different characters are used as modular pieces that can be juxtaposed to provide rather flexible graphic portrayals).

3a3a

A second problem -- developing workable dialogue among his community members. Includes submitting periodical reports; but also specific needs such as reporting on questions, problems, etc. in using PLATO.

3b

We reiterate the need for a Community architect with whom we can work. Made some headway toward one possible solution -- that we might hire a person who is mutually agreeable to Tom and to ARC; then he lives and works with us for like a year, helping both him and us; then possibly moving out from ARC to joining some Community organization and become solidly an internal-Community workshop architect.

3b1

Apparently the PLATO terminals won't be installed terribly soon, and Tom would like to provide the Community people with typewriters beforehand so that they can get on with their dialogue, etc. Wonders what specific terminals to get for these people -- could we help him with this choice? (Does he need coordinated-procurement help, perhaps?)

3c

(Action) Specific action on these above items:

4

O'Sullivan will provide us with: Engineering description (software interface, too) of the PLATO terminals, so that we can assess some possibilities for adapting these terminals to NLS work.

4a

He will seek clarification of the proportion of ARPA subscription to the NLS Utility that HRRO will "consume" -- and JCN will check further with him and Larry on this when JCN and PR are at the ARPA offices week after next.

4b

Dick Watson will contact him soon to talk about the explicit next steps toward our possibly helping him, on the three issues of PLATO-terminal workshop applicability, typewriter terminals, and stages of Community Development.

4c

Visit Log: 3 May 73, Tom O'Sullivan, ARPA HRRO

Tom knows that he will need some costing data, to prepare internal paper work. RWW, as coordinator of our Community Business, will interface with Tom subsequently, to provide information, and work toward mutual effort.

4c1

One specific item to pursue -- possible early ARC-staff support, of the order of one full-time guy. Like, we take on a whole guy, his choice perhaps, and he works for us at least a year, often being the one who helps out the CBI people, and more and more becomes their architect; with high probability, understood at the start, that he might transfer at the end of a year or so to be organizationally and geographically the CBI man in full (like moving to that Community's administrative/intellectual center...)

4c2

Miscellaneous:

5

Possibility for using NLS as a front end, for formulation, composition, testing, etc. of TUTOR (PLATO's author language).

5a

Tom says that a couple of fellows at Lowry AFB, in the AF Human Resources Lab, are experienced writers (coders) in TUTOR. Tom thinks it would be interesting to have them spend some time to investigate this possibility. Says that there is a big contract (like \$9 M over several years) in the final stages of evaluating and giving (people like McDonnell Douglas and North American Rockwell in the bidding) to install extensive PLATO-like CAI system for the Air Force. Still open then would be questions as to support systems for authors; current plans is to enrich the TUTOR language, which is one obvious approach to be studied. Interesting to consider seeing about an NLS Workshop approach, also -- with its other benefits.

5a1

Much work to be done in internal system, file management, instructional interface, etc.

5a2

Mentions specific work-support needs he sees:

5b

Writing up a trip summary, would like to call attention to each of a number of guys different collections of sections.

5b1

Pull together retrieval passes over material of his own, to pull out passages, etc. as per various relevant issues.

5b2

Available CAI author languages...

5c

PLANIT -- SDC: runs on 360, and on a CDC machine (perhaps RAND had it working on their PDP-10?). Is or will be accessible

Visit Log: 3 May 73, Tom O'Sullivan, ARPA HRRO

through the NET on SDC machine. NSF just finished an effort to make it more machine transportable, getting more distribution of its availability. (PLANIT would be Tom's suggestion for a language that would have wider use and interest, in case we mapped some of it into NLS as a starter).

5c1

Approac for getting documentation: Dave Aaronson at SDC (check CBI memlist).

5c1a

Or, ERIC McWilliams, at NSF, who has been responsible f the "transportability" effort. (Tom feel that it would be nice for Eric t come and visit ARC anyway, so suggests I contact him, tell him the geneal author-support notion, and invite him by.)

5c1b

Eric also responsile for MITRE's TICCET, and for Illionois PLATO evaauation effort (spending much money).

5c1b1

MITRE, Illinois , ETS (evaluation), Bunderson (Brigham Young, Provo, Utah), for course materials for TICCET).

5c1b2

Tom also suggests getting Bunderson to come out for a visit, see how interested he would become.

5c1b3

COPI, for UNIVAC 1108 systems, developed at UNIVAC, would be compatible for running under NLS (like PLANIT).

5c2

TUTOR might be possible, but it was made to harness more audio-visual capacity than our current NLS deals with.

5c3

LOGO, which runs on a PDP-10

5c4

A To-Do for ARC: Run down some documentation on TUTOR, and on author practices, for writing PLATO courseware, so we can get some idea of possibilities and probems for using NLS as front end.

6

DCE 9-JUL-73 17:43 17705

Visit Log: 3 May 73, Tom O'Sullivan, ARPA HRRO

(J17705) 9-JUL-73 17:43; Title: Author(s): Douglas C. Engelbart/DCE
; Distribution: /rww jcn drb bc mdk dvn to dls ;
Sub-Collections: SRI-ARC; Clerk: DCE ;

Sort/Merge in NLS

To RWW & CHI ... I haven't received any feedback concerning my proposed extensions to the sort/merge commands (JJOURNAL, 17234,1:wy), and would like to know if any decision has been made regarding that proposal. I feel that the need for better sort/merge commands is paramount. I would be happy to discuss (17234,) in order to reach a decision concerning its content and fate. ... Mike

1

17707 Distribution

Richard W. Watson, Charles H. Irby,

Sort/Merge in NLS

(J17707) 9-JUL-73 09:39; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /RWW CHI; Sub-Collections: SRI-ARC; Clerk: MDK;

While looking through the identfile, I found that your "local network mailbox address" is listed as JED@BBN. It should be just JED so I am modifying the entry to that. I am wondering if BBN should be your "host" (although a number -- as is listed -- can also be used). Thank you. You can contact me through the journal or through send message to Keeney@SRI-ARC. Marcia Keeney.

1

17708 Distribution

James E. (JED) Donnelley,

(J17708) 9-JUL-73 09:45; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /JED; Sub-Collections: SRI-ARC; Clerk: MLK;

Your Entry in the Identfile

While looking through the identfile I found that your "Host" is listed as "0". It is OK to use a number for the host although often a name is used -- I'm just checking to make sure it is the correct number. Is it the right one for your host? You can contact me through the journal or through send message to Keeney@SRI-ARC. Thanks. Marcia Keeney.

1

17709 Distribution
Chuck S. Kline,

Your Entry in the Identfile

(J17709) 9-JUL-73 09:49; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /CSK; Sub-Collections: SRI-ARC; Clerk: MLK;

tickler

(Tickler)

(July)

1

1

2

1a

1a1

3

1a2

1a3

4

1a4

5

1a5

6

1a6

7

1a7

8

1a8

9

1a9

10

1a10

11

1a11

isc confessions

1a11a

lab activity report due

1a11b

12

1a12

13

1a13

14

1a14

15

1a15

16

1a16

program/tpo dry run for is

1a16a

17

1a17

18

1a18

isf confessions

1a18a

lab activity report due

1a18b

tickler

19		1a19
20		1a20
	RADC history inputs due	1a20a
	r & t selection of the month	1a20b
21		1a21
22		1a22
23		1a23
24		1a24
25		1a25
	isi confessions	1a25a
	lab activity report due	1a25b
26		1a26
	program/tpo pitch	1a26a
27		1a27
	newsbrief	1a27a
28		1a28
29		1a29
30		1a30
31		1a31
(June)		1b
18		1b1
	back to work - fulltime	1b1a
21		1b2
	confessions	1b2a

tickler

	topics; ids, printers, akw, directories, akw evaluation, training	1b2a1
25		1b3
	mac on leave for two weeks	1b3a
	roc on tdy for one week	1b3b
27		1b4
	program meeting isi - discussion of line items	1b4a
28		1b5
	program meeting isc - as above	1b5a
29		1b6
	program meeting	1b6a
(May)		1c
8		1c1
	out of hospital	1c1a
(April)		1d
3.		1d1
	meeting on Lab Director's funds - 1400 in Conf room 1a	1d1a
9.		1d2
	Mustang returned from repairs at stockholm	1d2a
10.		1d3
	pinto delivered - finally	1d3a
11.		1d4
	Jim home from hospital in temporary backbrace.	1d4a
12.		1d5
	ed totals his volvo - no apparent injuries. we hope	1d5a

tickler

21.		1d6
	ruptured appendix -sick,sick,sic	1d6a
(March)		1e
8.		1e1
	DLS dry run for the SAB Pitch 1030, if system is up.	1e1a
12.		1e2
	meeting on Lab Director's Fans1400 in Conf Room 1a	1e2a
13.		1e3
	Scientific Advisory Board visit.	1e3a
14.		1e4
	SAB visit and pitch.	1e4a
15.		1e5
	confessions isi	1e5a
20.		1e6
	ieee meeting and demonstration of AHI	1e6a
28.		1e7
	Meeting with dls in AM - Subject - Manpower Accounting	1e7a
	meeting not held due to conflict with Col danielian visit	1e7a1
	1000 am Demo in Facility by Ossman on the Beehive and the Super Bee Terminals.	1e7b
	col.daniellian visit	1e7c
29.		1e8
	col.daniellian visit	1e8a
	Briefing by Col Daniellian on results of br700 evaluation in Airlift function.	1e8b
(august)		1f

tickler

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25	1f25

tickler

26	1f26
27	1f27
28	1f28
29	1f29
30	1f30
31	1f31
(sept)	1g
1	1g1
2	1g2
3	1g3
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6	1g6
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18	1g18

tickler

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29	1g29
30	1g30
31	1g31

(Journal) Journal documents (most recent first)

2

(contents) This file contains the following branches which can be accessed by name when enclosed in parenthesis: journal, contents, haveread, meetings, trips, briefings, reports, staffmeet, min, history, is div briefs, rSt selection of the month, technology planning objectives(tpo's), lab director's report, annual accomplishment report, history, technology coordinating papers, (tcp's). techology area annexes, (taa's). techhnology objective documents, (tod's).technology needs (tn's),research needs, (rn's). roc 's,.rad's,. miscellaneous write-ups,. projects,. tasks,. efforts

3

(haveread) Journal documents I have acknowledged

4

JPC 27-JUN-73 07:48
Some Thoughts on the Forms System
Location: (JJOURNAL,, 1:w)

4a

JPC-JUN-73 08:49 17125
lds meeting
Location: (JJOURNAL, 17125, 1:w)

4b

tickler

Comments: Please read and comment

4b1

DLS 11-JUN-73 14:25 17112
 Review of (michael,forms)
 Location: (JJOURNAL, 17112, 1:w)

4c

JLM 6-JUN-73 11:30 17062
 project Admin
 Location: (GJOURNAL, 17062, 1:w)

4d

Comments: summary oof a phone call from Frank Allen.

4d1

JHB 31-MAY-73 08:56 16927
 Notice of Effort Writeup.
 Message: The Effort writeup is complete as of 31 May 73 for the
 AHI Analysis--Evaluation Task. To read the current status jump
 on this link: (bair,effeval,status) and print the branch. Thank
 you.

4e

DLS 21-MAY-73 14:36 16711
 response to Draft Training Design Doc (16639,)
 Location: (IJOURNAL, 16711, 1:w)

4f

DLS 19-MAY-73 13:28 16697
 First Impressions of the TNLS Calculator
 Location: (IJOURNAL, 16697, 1:w)

4g

JHB 17-MAY-73 14:15 16658
 Proficiency test for TNLS, response to (ijournal,16346,1:w), DVN
 Message: Dr. George Borden has developed the draft of a proficiency
 test for RADC AHI users of TNLS. The test is designed to be self
 administered and appears to cover most aspects of usage. Please
 take a look at this short file (radc,prof,1:wm) and send your
 comments or concurrence to me. I'm not sure how this fits in with
 Dirk's ideas (ijournal, 16346, 1:w) yet but it doesn't appaer to
 conflict. We should begin (all of us) taking this as soon as
 possible.
 This test would fit Dirk's "edit some file into a different form"
 while noting CPU time. Of course the connect time and the
 commands used will be tabulated (would be great if this commands
 used were tabulated automatically in TNLS as they are in DNLS). A
 further note: I'm note sure what the CPU time to type in online a
 text (mjournal,16272,3) tells us....(I'd sure flunk ...)

4h

tickler

JHB 17-MAY-73 07:12 16650
 proficiency test
 Location: (IJOURNAL, 16650, 1:w)

4i

DLS 12-MAY-73 08:18 16379
 IS Reorg..Impact on AKW Program
 Location: (IJOURNAL, 16379, 1:w)

4j

Comments: These are my personal reactions to the reorganization of the division. I would be interested in hearing your comments.

4j1

JLM 13-APR-73 06:10 15936
 MIS monthlt report
 Location: (MJOURNAL, 15936, 1:w)

4k

Comments:

4k1

This a report I intend to send to you and F Tomani the 15th of every month. I will send it through the journal so it is available to you on line and you will then get a hard copy as well. All of the links work which means that all of my engineers effort write ups are on-line to you by using the jump to link command

4k2

DLS 11-APR-73 09:26 15734
 Cheap DNLS terminals--Superbee
 Location: (MJOURNAL, 15734, 1:w)

4l

Comments: Some general thoughts on a replacement for current DNLS terminals and some specifics on a particular terminal-the Super Bee.

4l1

JHB 9-APR-73 06:20 15638
 Trip Report, Wash. DC, 2 Apr 73
 Location: (MJOURNAL, 15638, 1:w)

4m

Comments: This is for AHI people on-line, hardcopy forthcoming from ARC/Journal for transmission forward. Note: We need space and ID for Col. Danielian's shop. Send messages, etc. to them at RADC with a note at the beginning of the communication stating the recipient's ID/Name. (Borden also in RADC.)

4m1

TFL 6-APR-73 08:59 15621

tickler

AHI/NETWORK LINE PRINTER SOW

Location: (MJOURNAL, 15621, 1:w)

4n

Comments: For your review and comment.

4n1

DLS 4-APR-73 05:43 15480

Response to 15467--ARPANET Line Printer

Message: As a patient but frustrated user of the current line printer, I agree with Tom's suggestion that we revive the ARPANET line printer buy. Red Moran has been extremely helpful in trying to get the current kludge running but he is working with an antiquated and unnecessarily complicated piece of equipment. We might someday want to get tapes off the ARPANET, so we shouldn't abandon the equipment altogether, but the printer part of it has seen better days. We can limp along another few months while a new printer is being procured, but we should start on the procurement now

4o

TFL 3-APR-73 07:35 15468

RADC LINE PRINTER

Location: (MJOURNAL, 15463, 1:w)

4p

Comments: This file explains how people can use the local RADC line printer.

4p1

TFL 3-APR-73 06:59 15467

AHI/Network Line Printer

Location: (MJOURNAL, 15467, 1:w)

4q

Comments: Procurement of AHI/Network Line Printer

4q1

DLS 30-MAR-73 6:50 15401

Expanded Use of the ARPANET

Location: (MJOURNAL, 15401, 1:w)

4r

Comments: This is my personal opinion. It has not been coordinated with anyone. I hope it will stimulate some debate on the subject.

4r1

DLS 30-MAR-73 13:40 15400

Minutes of meeting on time accounting in ISI

Location: (MJOURNAL, 15400, 1:w)

4s

tickler

Comments: Would like to meet asap to get response to this

4s1

JHB 15-MAR-73 8:53 15111

Communication Analysis Technique for Analysis of AHI

Message: The "CCA" for analyzing the communication patterns in organizations is briefly discussed in (bair,ahi2,6i2:w). It is not complete as of yet but is being worked on. It IS a new technique BUT the purpose and data have always been in the plan. This is a recent advance in the SOA that is being incorporated post haste.

4t

Comments: In response to Stone's question (reaction to MIN, Stone). Copy for Kennedy.

4t1

DLS 12-MAR-73 7:15 15006

Response to Borden meeting

Location: (LJOURNAL, 15006, 1:w)

4u

Comments: I think we need meetings on evaluation and training similiar to that recently held on terminals--to review the progress and plans in each of these areas.

4u1

DLS 5-MAR-73 6:34 14871

PROPOSAL FOR ADDITIONAL AKW TERMINALS

Location: (JJOURNAL, 14871, 1:w)

4v

Comments: THIS REPRESENTS THE FINAL THINKING FROM ISIM ON ADDITIONAL TERMINALS FOR AKW EVALUATION EFFORT. WE NEED QUICK ACTION ON THIS IF WE ARE TO BUY ANY BEFORE THE END OF FY-73
Master Copy Printed by WRF
Access Copy Printed by WRF

4v1

DLS 5-MAR-73 9:07 14879

Buisness World Marches on Paper

Location: (JJOURNAL, 14879, 1:w)

4w

Comments: Took this from the Utica Press. It has some interesting numbers on the paperwork explosion in the U.S. Hopefully we have a better soloution to the problem than the author of the article.
Master Copy Printed by WRF
Access Copy Printed by WRF

4w1

DLS 2-MAR-73 13:16 14850

Minutes of Meeting on Terminal Proposal

tickler

Location: (JJOURNAL, 14850, 1:w)

4x

DLS 28-FEB-73 10:10 14826

Draft Proposal for Additional Terminals

Location: (IJOURNAL, 14826, 1:w)

4y

DLS 20-FEB-73 11:34 14540

Trip Report--SRI--13-14 FEB

Location: (IJOURNAL, 14540, 1:w)

4z

(meetings)

5

trips

6

briefings

7

reports

8

staffmeet

9

AHI:

9a

We still should press for the large screen display for the SAB pitch. What can we do to try and pull it off anything?

9a1

I talked to Major Logan and he suggested either the week of the 5th or 12th for sending one of our guys down to train him on the sytem

9a2

We should chat with Major Zarra about the possibility of bring him and F Allen on the system to work together on project admin.

9a3

I sent a message to you ed on the terminals .We have got the chance to order as many terminals as we think we need for our section and branch i guess as well as enough for the front office .

9a4

Min

10

History

11

Information Science Division Briefs

12

R&T Selection of the Month

13

tickler

Technology Planning Objectives	14
mdp 11-may-72 8:22 10412	14a
tpo-14 for fy-73	14b
Location(jjournal,10412, 1:w)	14c
Lab Director's Report	15
Annual Accomplishment report	16
RADC History	17
Technology Coordinating Papers (TCP's)	18
Technology Area Annexes	19
Technology Objective Documents	20
Technology Needs (TN's)	21
Research Needs	22
Roc's	23
RAD's	24
Miscellaneous Writeups	25
Projects	26
Tasks	27
Efforts	28
	29
(=,.)	29a
mutf	29a1
interfund	29a1a
	29a1a1
date	29a1a2
amount	
number	
cost	
total	
apr 18,72	29a1a3
\$500.00	
31.726	
\$15.76	

tickler

jul 6,72	100.00	6.460	15.48	38.186	29a1a4
oct 10,72	106.00	7.715	13.74	45.901	29a1a5
nov 8,72	28.00	2.011	13.92	47.912	29a1a6
dec 19,72	50.00	3.506	14.26	51.418	29a1a7
jan 19,73	28.00	2.009	13.94	53.427	29a1a8
feb 9,73	28.00	2.115	13.24	55.542	29a1a9
cg mar 1,73	19.44	1.569	12.39	57.111	29a1a10
mar 5,73	28.00	2.245	12.47	59.356	29a1a11
apr 6,73	28.00	2.316	12.06	61.672	29a1a12

29a1a13

29a1a14

29a1b

price-rowe

29a1c

29a1c1

date	amount	number	cost	total	
apr 24,72	\$1000.00	30.807	\$32.46		29a1c2
jul 5,72	175.00	5.255	33.30	36.062	29a1c3
div aug 1,72	4.33	.132	32.69	36.194	29a1c4
oct 10,72	100.00	3.197	31.28	39.391	29a1c5
jan 18,72	100.00	3.178	31.47	42.569	29a1c6
div feb 6,73	4.74	.158	29.91	42.727	29a1c7
cg feb 6,73	42.54	1.422	29.91	44.149	29a1c8
mar 29,73	100.00	3.427	29.18	47.576	29a1c9
may 1,73	100% dist stock	47.576 shares		95.152	29a1c10

29a1c11

stocks

29a2

tickler

ibm

29a2a

jul ,71 4 at 298 1/4 dj 890

29a2a1

apr 16,73 4 at 429 1/8 dj 950

29a2a2

may 10,73 2 (25% split) dj 900

29a2a3

avon

29a2b

dec 26,67 3 at 134 3/4 dj 900

29a2b1

may 15,70 3 (100% split) dj

29a2b2

occidental

29a2c

sep 26,69 10 at 26 1/4 dj 825

29a2c1

jul 15,70 .1+.9 at 12.54 dj 730 (1% div.)

29a2c2

apr 16,73 39 at 12 7/8 dj 900

29a2c3

rolls royce

29a2d

feb ,71 1000 at .61 dj 850

29a2d1

topper

29a2e

aug ,71 10 at 17 3/8 dj 850

29a2e1

17710 Distribution
Joel P. Cavano,

tickler

(J17710) 9-JUL-73 10:00; Title: Author(s): Edmund J. Kennedy/EJK;
Distribution: /JPC; Sub-Collections: RADC; Clerk: EJK;
Origin: <KENNEDY>EJK.NLS;10, 9-JUL-73 09:50 EJK ;

Seminar Announcement: 12-July 10:00 AM

SEMINAR ANNOUNCEMENT:

LAURA GOULD (BBN) ON THURSDAY JULY 12 AT 10:00 AM, ARC CONF RM

Ms. Gould will discuss the NLS Command Language from a users' standpoint.

Currently at BBN, formerly a faculty member at UC Berkeley, Ms. Gould is on the "SCHOLAR" project at BBN and has been into linguistics and computer languages for about the past ten years.

I invited her to talk to us because she has a number of observations which should be of benefit to ARC.

(She learned NLS from the documentation. Dirk and I met her at the BBN NLS course, where she participated as an observer. Her purpose there was to determine the problems associated with teaching and learning a sophisticated computer language.)

1

17711 Distribution

Richard W. Watson, Don I. Andrews,
Jeanne M. Beck, Mark Alexander Beach, Judy D. Cooke, Marcia Lynn
Keeney, Carol B. Guilbault, Susan R. Lee, Elizabeth K. Michael,
Charles F. Dornbush, Elizabeth J. (Jake) Feinler, Kirk E. Kelley, N.
Dean Meyer, Kay F. Byrd, James E. (Jim) White, Diane S. Kaye, Paul
Rech, Michael D. Kudlick, Ferg R. Ferguson, Linda L. Lane, Marilyn F.
Auerbach, Walt Bass, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan,
Harvey G. Lehtman, Jeanne B. North, James C. Norton, William H.
Paxton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De Riet, Dirk
H. Van Nouhuys, Kenneth E. (Ken) Victor, Donald C. (Smokey) Wallace

Seminar Announcement: 12-July 10:00 AM

(J17711) 9-JUL-73 10:03; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: MDK;

tickler

(Tickler)

(July)

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1a11

isc confessions

1a11a

lab activity report due

1a11b

12

1a12

13

1a13

14

1a14

15

1a15

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1a16

program/tpo dry run for is

1a16a

17

1a17

18

1a18

isf confessions

1a18a

lab activity report due

1a18b

tickler

19		1a19
20		1a20
	RADC history inputs due	1a20a
	r & t selection of the month	1a20b
21		1a21
22		1a22
23		1a23
24		1a24
25		1a25
	isi confessions	1a25a
	lab activity report due	1a25b
26		1a26
	program/tpo pitch	1a26a
27		1a27
	newsbrief	1a27a
28		1a28
29		1a29
30		1a30
31		1a31
(June)		1b
18		1b1
	back to work - fulltime	1b1a
21		1b2
	confessions	1b2a

tickler

	topics; ids, printers, akw, directories, akw evaluation, training	1b2a1
25		1b3
	mac on leave for two weeks	1b3a
	roc on tdy for one week	1b3b
27		1b4
	program meeting isi - discussion of line items	1b4a
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	program meeting	1b6a
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	pinto delivered - finally	1d3a
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	Jim home from hospital in temporary backbrace.	1d4a
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	ed totals his volvo - no apparent injuries. we hope	1d5a

tickler

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(august)		1f

tickler

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tickler

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(sept)	1g
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tickler

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27	1g27
28	1g28
29	1g29
30	1g30
31	1g31

(Journal) Journal documents (most recent first)

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3

(haveread) Journal documents I have acknowledged

4

JPC 27-JUN-73 07:48

Some Thoughts on the Forms System

Location: (JJOURNAL,, 1:w)

4a

JPC-JUN-73 08:49 17125

ids meeting

Location: (JJOURNAL, 17125, 1:w)

4b

tickler

Comments: Please read and comment

4b1

DLS 11-JUN-73 14:25 17112
 Review of (michael,forms)
 Location: (JJOURNAL, 17112, 1:w)

4c

JLM 6-JUN-73 11:30 17062
 project Admin
 Location: (GJOURNAL, 17062, 1:w)

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4d1

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DLS 21-MAY-73 14:36 16711
 response to Draft Training Design Doc (16639,)
 Location: (IJOURNAL, 16711, 1:w)

4f

DLS 19-MAY-73 13:28 16697
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 This test would fit Dirk's "edit some file into a different form"
 while noting CPU time. Of course the connect time and the
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 used were tabulated automatically in INLS as they are in DNLS). A
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4h

tickler

JHB 17-MAY-73 07:12 16650
 proficiency test
 Location: (IJOURNAL, 16650, 1:w)

4i

DLS 12-MAY-73 08:18 16379
 IS Reorg..Impact on AKW Program
 Location: (IJOURNAL, 16379, 1:w)

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4j1

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 MIS monthlt report
 Location: (MJOURNAL, 15936, 1:w)

4k

Comments:

4k1

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4k2

DLS 11-APR-73 09:26 15734
 Cheap DNLS terminals--Superbee
 Location: (MJOURNAL, 15734, 1:w)

4l

Comments: Some general thoughts on a replacement for current DNLS terminals and some specifics on a particular terminal-the Super Bee.

4l1

JHB 9-APR-73 06:20 15638
 Trip Report, Wash. DC, 2 Apr 73
 Location: (MJOURNAL, 15638, 1:w)

4m

Comments: This is for AHI people on-line, hardcopy forthcoming from ARC/Journal for transmission forward. Note: We need space and ID for Col. Danielian's shop. Send messages, etc. to them at RADC with a note at the beginning of the communication stating the recipient's ID/Name. (Borden also in RADC.)

4m1

TFL 6-APR-73 08:59 15621

tickler

AHI/NETWORK LINE PRINTER SOW
 Location: (MJOURNAL, 15621, 1:w)

4n

Comments: For your review and comment.

4n1

DLS 4-APR-73 05:43 15480
 Response to 15467--ARPANET Line Printer
 Message: As a patient but frustrated user of the current line printer, I agree with Tom's suggestion that we revive the ARPANET line printer buy. Red Moran has been extremely helpful in trying to get the current kludge running but he is working with an antiquated and unnecessarily complicated piece of equipment. We might someday want to get tapes off the ARPANET, so we shouldn't abandon the equipment altogether, but the printer part of it has seen better days. We can limp along another few months while a new printer is being procured, but we should start on the procurement now

4o

TFL 3-APR-73 07:35 15468
 RADC LINE PRINTER
 Location: (MJOURNAL, 15468, 1:w)

4p

Comments: This file explains how people can use the local RADC line printer.

4p1

TFL 3-APR-73 06:59 15467
 AHI/Network Line Printer
 Location: (MJOURNAL, 15467, 1:w)

4q

Comments: Procurement of AHI/Network Line Printer

4q1

DLS 30-MAR-73 6:50 15401
 Expanded Use of the ARPANET
 Location: (MJOURNAL, 15401, 1:w)

4r

Comments: This is my personal opinion. It has not been coordinated with anyone. I hope it will stimulate some debate on the subject.

4r1

DLS 30-MAR-73 13:40 15400
 Minutes of meeting on time accounting in ISI
 Location: (MJOURNAL, 15400, 1:w)

4s

tickler

Comments: Would like to meet asap to get response to this

4s1

JHB 15-MAR-73 8:53 15111

Communication Analysis Technique for Analysis of AHI

Message: The "CCA" for analyzing the communication patterns in organizations is briefly discussed in (bair,ahi2,6i2:w). It is not complete as of yet but is being worked on. It IS a new technique BUT the purpose and data have always been in the plan. This is a recent advance in the SOA that is being incoorporated post haste.

4t

Comments: In response to Stone's question (reaction to MIN, Stone). Copy for Kennedy.

4t1

DLS 12-MAR-73 7:15 15006

Response to Borden meeting

Location: (LJOURNAL, 15006, 1:w)

4u

Comments: I think we need meetings on evaluation and training similiar to that recently held on terminals--to review the progress and plans in each of these areas.

4u1

DLS 5-MAR-73 6:34 14871

PROPOSAL FOR ADDITIONAL AKW TERMINALS

Location: (JJOURNAL, 14871, 1:w)

4v

Comments: THIS REPRESENTS THE FINAL THINKING FROM ISIM ON ADDITIONAL TERMINALS FOR AKW EVALUATION EFFORT. WE NEED QUICK ACTION ON THIS IF WE ARE TO BUY ANY BEFORE THE END OF FY-73
Master Copy Printed by WRF
Access Copy Printed by WRF

4v1

DLS 5-MAR-73 9:07 14879

Buisness World Marches on Paper

Location: (JJOURNAL, 14879, 1:w)

4w

Comments: Took this from the Utica Press. It has some interesting numbers on the paperwork explosion in the U.S. Hopefully we have a better soloution to the problem than the author of the article.
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Access Copy Printed by WRF

4w1

DLS 2-MAR-73 13:16 14850

Minutes of Meeting on Terminal Proposal

tickler

Location: (JJOURNAL, 14850, 1:w)

4x

DLS 28-FEB-73 10:10 14826

Draft Proposal for Additional Terminals

Location: (IJOURNAL, 14826, 1:w)

4y

DLS 20-FEB-73 11:34 14540

Trip Report--SRI--13-14 FEB

Location: (IJOURNAL, 14540, 1:w)

4z

(meetings)

5

trips

6

briefings

7

reports

8

staffmeet

9

AHI:

9a

We still should press for the large screen display for the SAB pitch. What can we do to try and pull it off anything?

9a1

I talked to Major Logan and he suggested either the week of the 5th or 12th for sending one of our guys down to train him on the sytem

9a2

We should chat with Major Zarra about the possibility of bring him and F Allen on the system to work together on project admin.

9a3

I sent a message to you ad on the terminals .We have got the chance to order as many terminals as we think we need for our section and branch i guess as well as enough for the front office .

9a4

Min

10

History

11

Information Science Division Briefs

12

RET Selection of the Month

13

tickler

Technology Planning Objectives	14
mdp 11-may-72 8:22 10412	14a
tpo-14 for fy-73	14b
Location(jjournal,10412, 1:w)	14c
Lab Director's Report	15
Annual Accomplishment report	16
RADC History	17
Technology Coordinating Papers (ICP's)	18
Technology Area Annexes	19
Technology Objective Documents	20
Technology Needs (TN's)	21
Research Needs	22
Roc's	23
RAD's	24
Miscellaneous Writeups	25
Projects	26
Tasks	27
Efforts	28
	29
(=,.)	29a
mutf	29a1
interfund	29a1a
	29a1a1
date	29a1a2
amount	
number	
cost	
total	29a1a3
apr 18,72	
\$500.00	
31.726	
\$15.76	

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jul 6,72	100.00	6.460	15.48	38.186	29a1a4
oct 10,72	106.00	7.715	13.74	45.901	29a1a5
nov 8,72	28.00	2.011	13.92	47.912	29a1a6
dec 19,72	50.00	3.506	14.26	51.418	29a1a7
jan 19,73	28.00	2.009	13.94	53.427	29a1a8
feb 9,73	28.00	2.115	13.24	55.542	29a1a9
cg mar 1,73	19.44	1.569	12.39	57.111	29a1a10
mar 5,73	28.00	2.245	12.47	59.356	29a1a11
apr 6,73	28.00	2.316	12.06	61.672	29a1a12

29a1a13

29a1a14

29a1b

price-rowe

29a1c

29a1c1

date	amount	number	cost	total	
apr 24,72	\$1000.00	30.807	\$32.46		29a1c2
jul 5,72	175.00	5.255	33.30	36.062	29a1c3
div aug 1,72	4.33	.132	32.69	36.194	29a1c4
oct 10,72	100.00	3.197	31.28	39.391	29a1c5
jan 18,72	100.00	3.178	31.47	42.569	29a1c6
div feb 6,73	4.74	.158	29.91	42.727	29a1c7
cg feb 6,73	42.54	1.422	29.91	44.149	29a1c8
mar 29,73	100.00	3.427	29.18	47.576	29a1c9
may 1,73	100% dist stock	47.576 shares		95.152	29a1c10

29a1c11

stocks

29a2

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ibm					29a2a
jul ,71	4 at 298 1/4	dj 890			29a2a1
apr 16,73	4 at 429 1/8	dj 950			29a2a2
may 10,73	2 (25% split)	dj 900			29a2a3
avon					29a2b
dec 26,67	3 at 134 3/4	dj 900			29a2b1
may 15,70	3 (100% split)	dj			29a2b2
occidental					29a2c
sep 26,69	10 at 26 1/4	dj 825			29a2c1
jul 15,70	.1+.9 at 12.54	dj 730	(1% div.)		29a2c2
apr 16,73	39 at 12 7/8	dj 900			29a2c3
rolls royce					29a2d
feb ,71	1000 at .61	dj 850			29a2d1
topper					29a2e
aug ,71	10 at 17 3/8	dj 850			29a2e1

17712 Distribution

John L. McNamara, Frank J. Tonaini, Edmund J. Kennedy,

tickler

(J17712) 9-JUL-73 10:06; Title: Author(s): Edmund J. Kennedy/EJK;
Distribution: /JLM FJT EJK; Sub-Collections: RADC; Clerk: EJK;
Origin: <KENNEDY>EJK.NLS;10, 9-JUL-73 09:50 EJK ;