Response to (Journal,14059,): I don't think so.

Charles, thanks for the reply to (Journal,14011,).
Unfortunatnately, I looked at your message with the Print Journal
message and was therby automatically linked to my message, as you
will be, if you are viewing this message with the Print Journal
command.

Perhaps the command should have an option to automatically link,
vs. query before linking.   D/

1

Response to (Journal,14059,): I don't think so.

(J14086)   26-JAN-73 11:44;   Title: Author(s): Crocker, David H./DHC;
Distribution: Irby, Charles H./CHI; Sub-Collections: NIC; Clerk: DHC;

Request for Current Journal Hardcopy for NIC, and ARC

Charles: This is to formalize my request for a new procedure for
Journal hardcopy, evolving from NIC needs and from our discussion
yesterday.   1

The new procedure would produce a lineprinter printout of all new
Journal entries each time the Journal was run.   2

This printout would be used as a master for NIC for reproduction
for distribution where speed is essential. At present, the
turnaround time for hardcopy from the 360 is 5 days to 2 weeks,
which is too slow to be useful for Network dialogue. Therefore at
present, NIC is making hardcopy for distribution from entries in
JBN (NICSTA) initial file, which is a nuisance and far from
automated.   3

At the time the NIC copy is produced on the lineprinter, we could
also obtain a copy for ARC, to be posted or filed and used for
repro to reduce the number of printout actions by individuals.   4

Request for Current Journal Hardcopy for NIC, and ARC

(J14087)   26-JAN-73 9:18;   Title: Author(s): North, Jeanne B./JBN;
Distribution: Hoffman, Carol B., Lee, Susan R., Michael, Elizabeth K.,
Dornbush, Charles F., ARC, Guest O., Feinler, Elizabeth J. (Jake),
Handbook, Augmentation Research, Kelley, Kirk E., Meyer, N. Dean, Byrd,
Kay F., Prather, Ralph, White, James E. (Jim), Vallee, Jacques F., Kaye,
Diane S., Rech, Paul, Kudlick, Michael D., Ferguson, Ferg R., Lane,
Linda L., Auerbach, Marilyn F., Bass, Walt, Engelbart, Douglas C.,
Hardeman, Beauregard A., Hardy, Martin E., Hopper, J. D., Irby, Charles
H., Jernigan, Mil E., Lehtman, Harvey G., North, Jeanne B., Norton,
James C., Page, Cindy, Paxton, William H., Peters, Jeffrey C., Ratliff,
Jake, Van De Riet, Edwin K., Van Nouhuys, Dirk H., Victor, Kenneth E.
(Ken), Wallace, Donald C. (Smokey), Watson, Richard W., Andrews, Don I.,
North, Jeanne B./SRI-ARC NICSTA ; Sub-Collections: SRI-ARC NICSTA;
Clerk: JBN;
Origin: <NORTH>JLHDCPY.NLS;1, 26-JAN-73 8:46 JBN ;

response to lpd's [nwg/rfc#446]
----

peter:

thank you for taking the time to consider the problems and
recommended solutions in your rfc. this type of cooperation
is a distinct step in the direction of eliminating extant
confusion and enabling arpanet to mature. your consideration
is very much appreciated.

i would offer the following additional suggestions in
amplification of your thoughts:

(1) how about forming a server host representatives group;
members of which can be contacted by users and prospective
users to answer questions relative to their hosts where the
answers are not available at the nic.

(2) how about a classification of 'server hosts' to dis-
ambiguate:

        o   those who serve only a restricted user community; such
as researchers in a particular community.
        o those who would like to be network servers (wholesalers)
such as possibly ucla and ucsb.
        o those who would like only select capabilities to be
employed by network users.
        o others.

such a classification would further eliminate confusion and
unnecessary
contact of personnel.

(3) how about a classification of users by their utilization
attributes?

we agree that this information should be maintained at the nic
and are proposing to supply information we receive to the nic for
such purpose.

thank you again; we would be most pleased in collaborating with
you in seeing these ideas implemented.

jean iseli............   1

(J14088)   26-JAN-73 11:04;   Author(s): Iseli, John/JI; Distribution:
Deutsch, L. Peter, Crocker, Steve D./LPD SDC2; Sub-Collections: NIC;
Clerk: JI;

response to lpd 14079
----

peter:

relative to your recent request for information on information
management systems, we found an nsf sponsored research project
at ucla wherein they are providing common access to a number of
science information service data bases (biological abstracts,
chemical abstracts, eric files, agriculture files, rudimentary
census data [not very complete], etc.)

the person to contact at ucla is: r. bruce briggs
                                   cis project manager
                                   campus computing network

the current service, batch, is free until july 1973. service
via arpanet is not practical at this time, but an operational
system is being developed for network usage and may be ready
within the next few months.

documentation they sent us includes:

            computerized bibliographic search service
            supplementary guide: preparing text-pac
              profiles for the eric files
            guide for preparing text-pac profiles
            profile analysts guide
            supplemental guide: preparing text-pac
              profiles for the ca-condensates file

will keep you informed of other responses...jean iseli......   1

(J14089)   26-JAN-73 12:03;   Author(s): Iseli, John/JI; Distribution:
Deutsch, L. Peter, Crocker, Steve D./LPD SDC2; Sub-Collections: NIC;
Clerk: JI;

Howzit Goin

Have you successfully run OLS on your IMLAC?   I haven't heard
from you in a while and I'm wondering how you've been doing.   Two
documents you should really have are the OLS manual (NIC 5748)
and "Telnet Access to UCSB's On-Line System" (rfc 216   NIC 7546).
Do you have them?   Our resource evaluation group is
progressing slowly.   We've concentrated mostly on UCSD, UCLA-CCN,
MULTICS , and MATHLAB and are dabbling in STAN-AI, ILLIAC-TENEX,
and Harvards organic molecule system.   We have a secretary who is
trying to compile procedures for obtaining accounts at each site.
She is having pretty good success.   How are things at your end?
Gotta go.   1

Howzit Goin

(J14090)   26-JAN-73 10:42;   Title: Author(s): Pickens, John R./JRP;
Distribution: Neigus, Nancy J./NJN; Sub-Collections: NIC; Clerk: JRP;

CREATING A FILE   1

   During normal hours: 1a

      Null file: 1a1

When	Load Average	Time (seconds)	
			1a1a
1/23 10:35	4.17	1.4	1a1b
11:27	4.05	1.4	1a1c
13:02	5.31	1.1	1a1d
Average-------4.51----------1.3			1a1e

      Insert Statement (10 sts. of 100 char each):   1a2

When	Load Average	Time (seconds)	
			1a2a
1/23 10:35	4.17	13.5	1a2b
		12.9	1a2c
		13.9	1a2d
	2.60	10.0	1a2e
11:27	4.07	11.6	1a2f
	2.96	11.4	1a2g
	1.68	10.4	1a2h
	2.40	11.3	1a2i
13:02	3.92	12.4	1a2j
	2.72	10.3	1a2k
	2.43	10.6	1a2l
	3.08	12.4	1a2m
Average-------3.0667--------11.6833			1a2n

      Update Old version: 1a3

Measurements: creating, journalizing, reading TNLS file

When	Load Average	Time (seconds)	1a3a
1/23 11:25	2.45	1.0	1a3b
11:55		0.9	1a3c
13:25	3.05	0.9	1a3d
Average-------2.75-----------0.9333			1a3e

During Compile and Load time: 1b

  Null file: 1b1

When	Load Average	Time (seconds)	1b1a
1/23 12:01	5.33	1.2	1b1b
1/25 12:16	2.55	1.0	1b1c
12:17	2.55	0.9	1b1d
Average-------3.4767---------1.0333			1b1e

Insert Statement (10 sts. of 100 char each):   1b2

When	Load Average	Time (seconds)	1b2a
1/23 12:02	6.76	15.8	1b2b
	5.14	15.0	1b2c
	5.39	14.3	1b2d
	5.29	14.5	1b2e
Average-------5.645----------14.9			1b2f

Update Old version: 1b3

When	Load Average	Time (seconds)	1b3a
1/23 12:35	5.29	1.0	1b3b

During off-hours: 1c

  Null file: 1c1

Measurements: creating, journalizing, reading TNLS file

When	Load Average	Time (seconds)	1c1a
1/25 23:06	0.14	1.1	1c1b

Insert Statement (10 sts. of 100 char each):   1c2

When	Load Average	Time (seconds)	1c2a
1/25 23:06	0.14	4.9	1c2b
23:14	0.14	4.9	1c2c
23:18	0.10	4.9	1c2d
23:24	0.10	4.6	1c2e
Average-------0.12-----------4.825			1c2f

Update Old version: 1c3

When	Load Average	Time (seconds)	1c3a
1/25 23:28	0.20	1.0	1c3b

SUBMITTING TO JOURNAL (1/23/73 14:00)   2

Deferred number, Interogate, sent to two idents   2a

# char	Load Average	Load File	Journal Submission	2a1
1000	3.32	0.3	7.6	2a2
2000	4.74	0.5	7.3	2a3
3000	4.80	0.5	6.6	2a4
4000	5.08	0.5	7.1	2a5
Average--4.485----------0.45-----------7.15				2a6

Number, one ident   2b

# char	Load Average	Load File	Journal Submission	2b1
1000			8.0	2b2

Measurements: creating, journalizing, reading TNLS file

2000	4.97		8.6	2b3
3000	5.85		8.5	2b4
4000			9.1 (two idents)	2b5
Average--5.41-------------------------------8.55				2b6

READING A JOURNAL FILE 3

Log-in: 3a

When	Load Average	Time	3a1
1/25 12:31	2.01	1.0	3a2
12:32	1.98	1.0	3a3
14:47	3.16	1.0	3a4
14:56	2.32	1.0	3a5
Average-------2.3675----------1.0			3a6

NLS: 3b

When	Load Average	Time	3b1
1/25 11:40	3.87	2.5	3b2
11:42	3.54	2.4	3b3
11:43	3.24	2.6	3b4
12:51	1.09	2.7	3b5
14:57	2.25	2.2	3b6
Average-------2.798----------2.48			3b7

Print a journal reference statement (in initial file): 3c

When	Load Average	Time	3c1
1/25 11:43	3.09	0.6	3c2

Measurements: creating, journalizing, reading TNLS file

11:44	2.97	0.5			3c3
11:45	3.34	0.6			3c4
11:46	3.54	0.5			3c5
Average-------3.235----------0.55					3c6

Print Journal file (Print Plex ↑):   3d

# char	When	Load Average	Time	Difference	3d1
1000	1/25 11:43	3.60	3.0		3d2
	14:24	3.72	2.9		3d3
Average------------3.66-----------2.95					3d4
2000	11:50	3.75	5.2		3d5
	14:21	2.56	4.9		3d6
Average------------3.155----------5.05			2.10		3d7
3000	11:53	4.69	7.0		3d8
	13:35	1.43	6.8		3d9
Average------------3.06-----------6.90			1.85		3d10
4000	14:30	3.67	8.9		3d11
	13:04	1.00	8.7		3d12
Average------------2.335----------8.80			1.90		3d13
Average---------------------------------------1.95					3d14

Return to Initial file (&):   3e

When	Load Average	Time		3e1
1/25 11:49	3.61	0.5		3e2
11:52	4.46	0.5		3e3
11:56	4.50	0.7		3e4

Measurements: creating, journalizing, reading TNLS file

13:07	0.81	0.6	3e5
13:34	1.24	0.7	3e6
13:38	1.76	0.6	3e7
14:23	3.83	0.6	3e8
14:25	3.81	0.4	3e9
Average--------3.0025---------0.575			3e10

NOTES: 4

The load average was read with the exec command "logstat".   4a

Times and load averages were usually taken before beginning
the command.   4b

When inserting a file, each measurement was taken after ten
consecutive Insert Statement commands, each of which included
one hundred characters, totaling one thousnad characters of
input per measurement.   4c

Measurements: creating, journalizing, reading TNLS file

(J14091) 25-JAN-73 23:47;   Title: Author(s): Meyer, N. Dean/NDM;
Distribution: Rech, Paul/PR; Sub-Collections: SRI-ARC; Clerk: NDM;
Origin: <MEYER>MEASURE.NLS;3, 25-JAN-73 23:45 NDM ;

tnls course registration

susan poh from mitre would like to register for the tnls course
on 7 and 8 feb. 1973.   1

tnls course registration

(J14092)   26-JAN-73 6:36;   Title: Author(s): Silberski, Robert/RS2;
Distribution: Jernigan, Mil E., Poh, Susan S./MEJ SSP; Sub-Collections:
NIC; Clerk: RS2;

Specifications for the Interconnection of an ARC and a DDSI
(Revised)

This is a revised version of 11382, updated to reflect changes to
the interchange convention actually in use at this time.

Specifications for the Interconnection of an ARC and a DDSI
(Revised)

This document is pursuant to a meeting held at DDSI (Los Angeles)
on 2 August 1972 to discuss specifications for interfacing the
NLS Output Processor to DDSI's COMp80 service. Attending this
meeting were Walt Bass, Mark Brown, and Paul Johnson. The
principal points discussed were: 1

  Conventions for simplifying the user interface to the COMp80,
  so that the user can access the powerful capabilities of the
  COMp80 without having to cope with the machine's full
  generality.   1a

  Specifications for the language interfacing the Output
  Processor to the COMp80.   1b

  Standards for magnetic tape formatting.   1c

User Interface   2

  The COMp80 provides a great deal of flexibility for specifying
  positions, character sizes and spacings, fonts, spot size and
  intensity, etc. It is my sense that giving all this "power"
  to the general user would be counterproductive in that the
  user would be likely to end up getting involved in long design
  cycles, trying to optimize all the variables so as to produce
  a sought-after document format.   2a

  What I have tried to do is to specify for the user a
  simplified subset of the full COMp80 capability which will
  enable users to easily and reliably get documents produced
  without extensive debugging of Output Processor directives.
  This simplified subset has the following characteristics: 2b

    The user will view the COMp80 as a machine for composing 8
    1/2 X 11" pages of text (any of these specs. may be
    generalized in the future, but until we get it working . .
    .).   2b1

    The user will specify physical dimensions such as character
    size and margin settings in units of one-thousandth inch,
    and the page will have a coordinate system in which (0, 0)
    is the upper left corner of the page and (8500, 11000) is
    the lower right corner.   2b2

    The user will specify the character size and basic line
    spacing using a single number which will be referred to as
    the "Character Size" -- an integer in a range yet to be
    determined, which is the number of thousandths between the

Specifications for the Interconnection of an ARC and a DDSI
(Revised)

bottoms of two successive lines of text -- e.g., a
character size of 100 has 1000/100 = 10 lines per inch.
DDSI will accept responsibility for converting our
"Character Size" parameter into the COMp80 character size
specifications needed to produce the desired results in the
final product (i.e., after blow-up from the microfilm into
delivered hardcopy.   2b3

The COMp80 offers 8 line widths (CRT spot sizes) and 8
intensity levels. Mark Brown has indicated that of the 64
character densities which are thus possible, perhaps 8 or
16 could actually be distinguished in a final
offset-printed product. It is my feeling that only 3 or 4
densities would actually prove to be of general use, and I
propose to offer the user only the following options:
Light, Medium (Normal), and Bold. DDSI has accepted
responsibility for determining the COMp80 settings which
will produce the desired effects in the final printed
documents so that we (ARC) don't have to worry about
diddling with the COMp80 hardware.   2b4

Output Processor / COMp80 Interface   3

   The Output Processor (OP) will produce a sequential file
   consisting of 7-bit bytes, packed 5 to a 36 bit word,
   left-justified (low-order bit is wasted). This sequential
   file will be copied to tape as per the specifications in the
   following section for transmission to DDSI.   3a

   The byte stream will be punctuated by command bytes, each of
   which may be followed by argument bytes when appropriate. The
   commands to be implemented first are: 3b

      = 1 : Output Line Segment   3b1

      = 2 : New Page (advance frame)   3b2

      = 3 : Insert Figure   3b3

      = 4 : End of Document (Any bytes between this and the EOF
      mark on the tape are to be ignored)   3b4

   The Output Line Segment command byte is followed by these
   arguments: 3c

      y-coordinate of line segment (2 bytes)   3c1

Specifications for the Interconnection of an ARC and a DDSI
(Revised)

This is the y-coordinate (in thousandths) of the
base-line of the characters to be printed in the
line-segment -- i.e., the line on which the upper case
letters rest.   3c1a

x-coordinate of left margin of line segment (2 bytes)   3c2

This is the x-coordinate (in thousandths) of the left
edge of the leftmost character position in the line
segment.   3c2a

x-coordinate of right margin of line segment (2 bytes)   3c3

This is the x-coordinate (in thousandths) of the right
edge of the rightmost character position in the line
segment.   3c3a

The x-coordinates will actually address the position
which lies between two adjacent character positions --
i.e., the x-right of one line segment may have the same
value as the x-left of the following line segment.   3c3b

Justification Code (one byte)   3c4

   = 0 : Set Line Segment Left Flush (ragged right)   3c4a

   = 1 : Set Line Segment Right Flush (ragged left)   3c4b

   = 2 : Center Line Segment Between Left and Right Margins   3c4c

   = 3 : Full Justification (insert space between words
   [and maybe characters within a word] to make both right
   and left edges of line segment flush with margins)   3c4d

Number of text segments in this line segment (one byte)   3c5

A line segment may contain up to 126 text segments, each
of which may be in a different face, size, boldness,
etc.   These text segments are combined into a single
line segment so as to permit them to be consistently
justified by the COMp80.   3c5a

Each text segment consists of the following information: 3c5b

   Type Face (one byte)   3c5b1

      = 0 : Courrier   3c5b1a

3

Specifications for the Interconnection of an ARC and a DDSI (Revised)

= 1 : Directory	3c5b1b
= 2 : Film	3c5b1c
= 3 : OCR-B	3c5b1d
= 4 : NMA Microfont	3c5b1e
= 5 : News Gothic	3c5b1f
= 6 : Times Roman	3c5b1g

Type Size (two bytes)   3c5b2

The spacing in thousandths between the base lines
of two adjacent lines.   3c5b2a

Type Style (one byte = b1 b2 b3 b4 b5 b6 b7)   3c5b3

Boldness (b6 b7)   3c5b3a

= 00 : medium (normal)   3c5b3a1

= 01 : light   3c5b3a2

= 10 : bold   3c5b3a3

Slant (b5) [hardware italics]   3c5b3b

If b5 is on, slant the characters in this text
segment.   3c5b3b1

Underlining (b4)   3c5b3c

If b4 is on, draw a line under the text in this
string, using a boldness to complement that of
the text.   3c5b3c1

Monospacing (b3)   3c5b3d

If b3 is on, monospace the characters in the
text segment; otherwise, set the characters
proportionally spaced (if allowed in that font)
or monospaced as appropriate.   3c5b3d1

Character Count (two bytes)   3c5b4

Specifications for the Interconnection of an ARC and a DDSI
(Revised)

              Characters (one byte per character)   3c5b5

     The Insert Figure commad byte is followed by these arguments: 3d

       Figure Number (three bytes)   3d1

         This is the unique (ARC Catalog) number assigned to a
photograph or drawing which will be submitted to DDSI in
hardcopy. DDSI is to merge this figure into
offset-printed copy by the most practicable method.   3d1a

       y-coordinate of center of figure on page (two bytes)   3d2

       x-coordinate of left edge of figure (two bytes)   3d3

       x-coordinate of right edge of figure (two bytes)   3d4

Magnetic Tape Format   4

7 track format   4a

One file per document   4b

   Files seperated by EOF tape marks   4b1

   End of tape indicated by two EOF marks in a row   4b2

A file consists of any number of fixed length records   4c

   The last record in a file is the same length as all the
others, hence may contain garbage.   4c1

Each record consists of 512 36-bit words   4d

Each word is broken into 6 6-bit packets, each of which has
one parity bit (using odd parity).   4e

Specifications for the Interconnection of an ARC and a DDSI
(Revised)

(J14093) 29-JAN-73 18:00;   Title: Author(s): Bass, Walt/WLB;
Distribution: Bass, Walt, Meyer, N. Dean, Engelbart, Douglas C., Watson,
Richard W., Van Nouhuys, Dirk H., Norton, James C., Auerbach, Marilyn
F./com ; Sub-Collections: SRI-ARC COM; Clerk: WLB;

Let's Let Kirk Insert Dex Tapes at Night

We are not using DEX to hold down the daytime load average.   1

Kirk Kelley has an inbox beside his desk. If you put a Dex tape
in that box he will put it in the system during the off hours of
the night. We are each a little better off during the day if we
let Kirk load in Dex tapes that have no special urgency.   2

Let's Let Kirk Insert Dex Tapes at Night

(J14094) 26-JAN-73 16:19;   Title: Author(s): Van Nouhuys, Dirk
H./DVN; Distribution: Byrd, Kay F., Lee, Susan R., Hoffman, Carol B.,
Kelley, Kirk E., Jernigan, Mil E., Lane, Linda L., Norton, James C.,
Engelbart, Douglas C./kfb srl cbh kirk mej lll jcn dce ;
Sub-Collections: SRIARC DPCS ; Clerk: DVN;

Survey inquiry

I heard (via Bob Bressler and his recent RFC) that the NMC has or
will have a standard format survey available on a standard socket
(he says 17(octal)). what is the status of that? i am working on
hoststat programs on TENEX that will use a previously obtained
survey from 'official survey sites', and I'd like to know when I
can put the NMC in my table.
Pax
    JOEL

1

Survey inquiry

(J14095)   26-JAN-73 14:11;   Title: Author(s): Levin, Joel B./JBL;
Distribution: Naylor, William E./WEN; Sub-Collections: NIC; Clerk: JBL;

Reply to (JOURNAL,14063,) : Electromagnetic Compatibility
Analysis survey

The NIC has no software or data bases in the area of
electromagnetic compatibility analysis.   1

Your comment about having no way of addressing server sites is
well taken, and we will create a group in the IDENT system by
which one can address the Technical Liaisons at all server hosts.
A Journal article announcing formation of the group and giving
its ident will be sent to the NWG. Thanks for the suggestion.   2

Reply to (JOURNAL,14063,) : Electromagnetic Compatibility
Analysis survey

(J14096) 26-JAN-73 15:45;   Title: Author(s): White, James E.
(Jim)/JEW; Distribution: Iseli, John/ji ; Sub-Collections: SRI-ARC;
Clerk: JEW;
Origin: <WHITE>ISELI.NLS;2, 26-JAN-73 15:43 JEW ;

questions on output processor

I've been experimenting with the use of NLS, directives, and the "Output Device Teletype" command to generate documents here in the ARPA/IPT office. I'm gradually feeling my way without too much difficulty, but there's one thing that just doesn't seem to work. What gives with the LBS directive? It doesn't work in my trials, and it doesn't work in printing out your tutorial file. Another problem we have is making pages come out right on our Western Union EDT 300 terminals (identical to the GE Terminet). These don't have any forms control, vertical tab, or what have you. With the BM directive , I can control the number (approximate) of text lines per page, but how can I control precisely the number of actual lines -- including heading, text, white space, etc. -- between successive page separators (----------------)? Please advise -- we're seriously trying to use your beyoodifool system   1

questions on output processor

(J14097)   26-JAN-73 14:26;   Title: Author(s): Perry, John S./JSP;
Distribution: Van Nouhuys, Dirk H./DVN; Sub-Collections: NIC; Clerk:
JSP;

Resignation from economist chair on Parsley Committee.

As I have lost interest in PODAC, I no longer wish to be a member
of the Parsley Committe. PSO has ample representation and the
Committee has ample man-power to handle my function as POD
economist.   Thank you.   1

Resignation from economist chair on Parsley Committee.

(J14098) 26-JAN-73 20:59; Title: Author(s): Kelley, Kirk E./KIRK;
Distribution: Auerbach, Marilyn F., Van Nouhuys, Dirk H., Lane, Linda
L., Jernigan, Mil E., Lehtman, Harvey G., Victor, Kenneth E. (Ken),
Rech, Paul, Wallace, Donald C. (Smokey)/MFA dvn lll mej hgl kev pr
dcw ; Sub-Collections: SRI-ARC; Clerk: KIRK;
Origin: <KELLEY>NUL.NLS;1, 26-JAN-73 20:52 KIRK ;

COM Interest Group Exists

There is now a COM Interest Group (Ident = COM). You are on
it. If you don't want to be, please let me know.   1

COM Interest Group Exists

(J14099)   26-JAN-73 14:55;   Title: Author(s): Bass, Walt/WLB;
Distribution: Bass, Walt, Meyer, N. Dean, Engelbart, Douglas C., Watson,
Richard W., Van Nouhuys, Dirk H., Norton, James C., Auerbach, Marilyn
F./COM; Sub-Collections: SRI-ARC COM; Clerk: WLB;

Output Processor Interest Group Exists

There is now an Output Processor Interest Group (Ident = OPIG).
You are on it. If you don't want to be, please let me know.   1

Output Processor Interest Group Exists

(J14100)   26-JAN-73 14:57;   Title: Author(s): Bass, Walt/WLB;
Distribution: Bass, Walt, Engelbart, Douglas C., Watson, Richard W.,
Norton, James C., Meyer, N. Dean, Van Nouhuys, Dirk H., Auerbach,
Marilyn F., Irby, Charles H./OPIG; Sub-Collections: SRI-ARC OPIG; Clerk:
WLB;

Re INTERROGATE Command

Suggestion for a tiny user feature optimization: in the
INTERROGATE command, allow CR to stand for 'Y CR in response to
"DO YOU WANT IT RETRIEVED ?". Also, maybe do an automatic
ALTMODE after the user types in the file name (if user types CR
rather than ALTMODE CR) to eliminate confusing "THAT FILE IS NOT
ARCHIVED" messages. -- Walt   1

Re INTERROGATE Command

(J14101)   26-JAN-73 15:12;   Title: Author(s): Bass, Walt/WLB;
Distribution: Wallace, Donald C. (Smokey)/DCW; Sub-Collections: SRI-ARC;
Clerk: WLB;

Draft Reply to X-PARC's XGP Proposal

Please let me know if this meets with your approval.

Draft Reply to X-PARC's XGP Proposal

Doug Engelbart, Dick Watson, and Walt Bass met on 12/27/72 to
discuss the proposed acquisition of a Xerox Graphic Printer (XGP)
by ARC for development as a local mixed-font text/graphics output
device. This memo summarises the important points of that
discussion.   1

The XGP is a raster-scan driven printing device with severe
real-time operating requirements including digital input at a
rate of approximately 500 kilobaud. The simplest kind of
operation possible seems to be represented by the XPRINT system
currently implemented at X-PARC. Using a minimal configuration
we would get a system with the following characteristics: 2

    1) Multiple-fonts on a page limited to those that can
    simultaneously be kept in core (say 2-4), where a change in
    size requires a change in "font".   2a

    2) No multiple-column capability without reprogramming the
    NLS Output Processor or pre-processing the OP COM formatted
    output.   2b

    3) No easy way of extending the capabilities to mixed
    text/graphics.   2c

    4) Real-time demand on the PDP-10 for characters at up to 15
    kilo-baud data rate.   2d

To develop this minimal system, assuming gift of the XGP, would
require: 3

    1) Purchase of extra core and probably a disc for our nova   3a

    2) Hand building of a Nova-XGP interface (to plans supplied
    by Xerox).   3b

    3) Provision, probably by construction, of a high-speed
    Nova/PDP-10 interface.   3c

    4) Possibly extensive PDP-10 monitor programming to meet the
    real-time demands of the XGP.   3d

    5) An undetermined amount of Nova program development and
    maintenance.   3e

We discussed this minimal system along with several more
expensive possibilities and concluded that we saw no way of
utilizing the XGP that met minimum cost/benefits requirements.   4

Draft Reply to X-PARC's XGP Proposal

It was our unanimous decision that we should not proceed with any
XGP-related development unless Xerox can demonstrate that there
is an economical way of using the XGP to duplicate, except for
resolution, the capabilities of the Comp80 as specified in
(14093,).   5

Draft Reply to X-PARC's XGP Proposal

(J14102) 26-JAN-73 15:18;   Title: Author(s): Bass, Walt/WLB;
Distribution: Engelbart, Douglas C., Watson, Richard W., Norton, James
C./dce rww jcn ; Sub-Collections: SRIARC COM OPIG ; Clerk: WLB;

Error in DNLS Journal Submission Procedure

You cannot specify "SRI-ARC" as subcollection membership in DNLS
journal submission: When you type "sri-a" NLS echoes (and enters
in the field) "SRIARC".   1

Error in DNLS Journal Submission Procedure

(J14103)   26-JAN-73 15:21;   Title: Author(s): Bass, Walt/WLB;
Distribution: Kaye, Diane S., Lehtman, Harvey G., Irby, Charles H./bugs
; Sub-Collections: SRI-ARC BUGS; Clerk: WLB;

IMP/TIP Memory Retrofit Schedule   1 /

This revision contains two major changes to RFC #434. First,
all retrofits scheduled prior to February first have been
completed and are therefore removed from the schedule.
Second, the CCA retrofit has been rescheduled from 3/20 to
2/28.   1a

The revised text of RFC #434 follows:

                                                                           1b

During the first several months of 1973 we will be
retrofitting each IMP and TIP with additional core memory. At
the end of the retrofit program, the memory sizes of the
various machines will be as follows: 1c

    IMP (516 or 316) - 16K words   1c1

    TIP - 28K words   1c2

    TIP with Magnetic Tape Option - 32K words   1c3

In addition, the expansion of the TIP core memory will
necessitate enlarging the TIP to two cabinets.   1d

Listed below is the schedule for the remaining retrofits. We
have arranged this schedule to coincide with the usual monthly
Preventive Maintenance at each site so as to minimize user
inconvenience, but the work required will frequently require
the machines to be down longer than normal. I will issue
additional RFC's updating this schedule as necessary.   1e

Any site which anticipates difficulty with the expansion of
TIP size, and thus the floor space requirement, should contact
Hawley Rising (BBN) at
    (617) 491-1850 ext. 473
All dates given below are in the form (month/day)   1f

    Utah (2/1)   1f1

    UCSB (2/6)   1f2

    Belvoir (2/8)   1f3

    NOAA (2/12)   1f4

    USC (2/13)   1f5

Stanford (2/14)   1f6

ETAC (2/15)   1f7

Aberdeen (2/22)   1f8

ISI (2/22)   1f9

Case (2/26)   1f10

CCA (2/28)   1f11

SRI (3/7)   1f12

Rome (3/14)   1f13

FNWC (3/15)   1f14

UCLA (3/19)   1f15

AMES IMP (3/21)   1f16

GWC (3/22)   1f17

Carnegie (4/4)   1f18

SDC (4/17)   1f19

Illinois (4/18)   1f20

(J14104) 29-JAN-73 7:47;   Title: Author(s): McKenzie, Alex A./AAM;
Distribution: Martin, Reg E., Leichner, Gene, Falk, Gil, Iseli, John,
Donnelley, Jed E., Kantrowitz, William, Wolfberg, Michael S., Feinroth,
Yeshiah S., Hurt, James, Hearn, Anthony C., Stein, James H., Shoshani,
Arie, Harslem, Eric F., Metcalfe, Robert M. (Bob), Reussow, Bradley A.,
Reins, E. R. (Dick), Kadunce, Daniel L., McCutchen, Samuel P., Petregal,
George N., Madden, James M., Young, Michael B., Padlipsky, Michael A.,
Stevenson, Schuyler, Deutsch, L. Peter, Davidson, John, O'Sullivan,
Thomas, Seroussi, Sol F., Bradner, Scott, Thomas, Robert H., Thomas,
John C., Romanelli, Michael J., Stoughton, Ronald M., Owen, A. D. (Buz),
Fink, Robert L., Meir, Jaacov, North, Jeanne B., Crocker, Steve D.,
Lawrence, Thomas F., McConnell, John W., Ollikainen, Ari A. J., White,
James E. (Jim), Hathaway, A. Wayne, Foulk, Patrick W., Winter, Richard
A., Van Zoeren, Harold R., McKenzie, Alex A., Winett, Joel M., Bhushan,
Abhay K., Pyke, Thomas N., Wilber, B. Michael, Feigenbaum, Edward A.,
Braden, Robert T., Pepin, James M., Wessler, Barry D., Melvin, John
T./NLG; Sub-Collections: NIC NLG; RFC# 447; Updates Document(s):   434;
Clerk: AAM;

Dear Vint,
Did you get my INWG note on Host/Host Protocol? Does it have to
wait for translation before the English copies are distributed?
Alex   1

(J14105)   29-JAN-73 6:09;   Title: Author(s): McKenzie, Alex A./AAM;
Distribution: Cerf, Dr. Vinton G./VGC; Sub-Collections: NIC; Clerk: AAM;

Response to Journal 13728

Dear Jon,
    During the "Cambridge FTP" meeting here at BBN last Thursday
the group decided to ignore your comment (objecting to RFC 414)
about continuation lines not beginning with a number.   Instead ,
we formulated a new set of rules as follows:
1) Any response, usually beginning with code "xxx ", which will
have several lines of output will begin the first line with code
"xxx-". (This rule helps sites like TENEX when it is a user site
and must discover how to interleave user typing with responses
--there is probably the same problem for any full-duplex user.)
2) Subsequent lines of the response are only constrained to not
begin with three digits.   This allows sithe which already have
fancy error-diagnostic generating routines to "be lazy" and use
them witout modification -- Multics seems to be another such
site.
3) The   last line of the response is constrained to begin with
the code "xxx ". This is designed to insure that the programmer
at the server site   takes a positive action to let the user site
know that the response is finished, rather than being extra-lazy
and counting on another response coming along "soon".

Comments?

Regards, Alex   1

Response to Journal 13728

(J14106)   29-JAN-73 6:26;   Title: Author(s): McKenzie, Alex A./AAM;
Distribution: Postel, Jonathan B., Neigus, Nancy J./JBP NJN;
Sub-Collections: NIC; Clerk: AAM;

the YOU HAVE A MESSAGE message

Sent to jbn and np

the YOU HAVE A MESSAGE message

During the last few days, when I log in to the NIC I get a line
from the TENEX exec that says "YOU HAVE A MESSAGE". I can't find
anything in my TNLS User's Guide about how to obtain a copy of
the alleged message.   What should I do?   1

the YOU HAVE A MESSAGE message

(J14107)   29-JAN-73 7:54;   Title: Author(s): McKenzie, Alex A./AAM;
Distribution: North, Jeanne B., Irby, Charles H./JBN NP;
Sub-Collections: NIC NP; Clerk: AAM;

Faster literal collection for TNLS

This will make it difficult to run TNLS on standard TENEX unless
the new SIN is made part of standard TENEX. However, I feel the
improvement is worth it.

Faster literal collection for TNLS

I have rewritten the procedure RDLIT (which is used to read a
literal from the user at a typewriter terminal) to use the new
SIN facility for supplying a string of break characters.
Preliminary measurements of the improvement follow. (I was told
recently that Paul had done some measurement of the old literal
collection times and I would like to ask him to verify this
improvement.)   1

    This was a best case test, in which no special characters were
    typed (e.g. BC, BW, ect.)   1a

        OLD literal collection   1a1

        to read 1052 characters (15 full lines) took 5.1 seconds
        according to ↑T, yielding 4.85 ms per character.   1a1a

        New literal collection   1a2

        to read 1052 characters took 1.9 seconds, yielding 1.8
        ms per character.   1a2a

        This gives us about a 2.7 improvement in processing of a
        character.   1a3

Faster literal collection for TNLS

(J14108) 28-JAN-73 12:13; Title: Author(s): Irby, Charles H./CHI;
Distribution: Victor, Kenneth E. (Ken), White, James E. (Jim), Dornbush,
Charles F., Michael, Elizabeth K., Vallee, Jacques F., Mitchell, James
G., Deutsch, L. Peter, Kaye, Diane S., Andrews, Don I., Bass, Walt,
Hopper, J. D., Irby, Charles H., Lehtman, Harvey G., Wallace, Donald C.
(Smokey), Victor, Kenneth E. (Ken), Dendy, Robert L., Melvin, John T.,
Rech, Paul, Vallee, Jacques F., Andrews, Don I., Watson, Richard W.,
Norton, James C., Van Nouhuys, Dirk H./NPG TENEXT PR JFV DIA RWW JCN
DVN; Sub-Collections: SRI-ARC NPG TENEXT; Clerk: CHI;

Subcollection problem in Journal

Dave, Please note (journal,14103,).   -- Charles.   1

Subcollection problem in Journal

(J14109)   29-JAN-73 11:53;   Title: Author(s): Irby, Charles H./CHI;
Distribution: Hopper, J. D./JDH; Sub-Collections: SRI-ARC; Clerk: CHI;

Response to (Journal, 14065,), Journal Subsystem

Nancy, Thanks for your suggestions about the Journal EXEC
command. I will try to make it happen as soon as I can. Do you
think one should be able to submit files, branches, etc., as well
as messages? After looking into it somewhat the savings in
startup time that I had hoped for are not materializing.
However, I still think it would be more convenient than having to
enter NLS first. Also, I had intended that the interrogate would
be automatically invoked as you suggested it should. The matter
of what constitutes a Command Accept in the submit message
literal is somewhat tricky, since experienced users will expect
to be able to use their normal control characters. I will think
about this for a while. I think I understand the problems and
will try to come up with a solution that is fairly easy on the
novice user. -- Charles Irby.   1

Response to (Journal, 14065,), Journal Subsystem

(J14110)   29-JAN-73 12:08;   Title: Author(s): Irby, Charles H./CHI;
Distribution: Neigus, Nancy J./NJN; Sub-Collections: SRI-ARC; Clerk:
CHI;

Response to (journal,14061,), NLS links

Dave, a link of the form (a,b) is interpreted to mean file A,
statement B, where file A is in assumed to be in the directory
given in the Execute File Status for the file containing the
link.   The links of the form (journal,jnl#) are missing a comma
and thus are not being interpreted properly -- they should be
(journal, jnl#,).   Also, upper/lower case only matters in
viewspecs -- as in (Directory, File, Statement : Viewspecs).
Journal is a Directory not a file.   -- Charles.   1

Response to (journal,14061,), NLS links

(J14111)   29-JAN-73 12:17;   Title: Author(s): Irby, Charles H./CHI;
Distribution: Crocker, David H., Kaye, Diane S., Lehtman, Harvey G.,
Irby, Charles H./DHC BUGS; Sub-Collections: SRI-ARC BUGS; Clerk: CHI;

Response to (journal, 14060,), EXEC journal

Dave, As currently planned the EXEC level Journal command would allow one to use the .LastName and other query facilities fo the Identification System just as the current Journal does.   -- Charles.   1

Response to (journal, 14060,), EXEC journal

(J14112) 29-JAN-73 12:20; Title: Author(s): Irby, Charles H./CHI;
Distribution: Crocker, David H., Kaye, Diane S., Lehtman, Harvey G.,
Irby, Charles H./DHC BUGS; Sub-Collections: SRI-ARC BUGS; Clerk: CHI;

Response to (journal, 14086,), Print Journal

Sorry, I was a bit premature in stating that the new Print
Journal code was now in the system. It did not get in in time to
be in the running system. It will be added within the next day
or two. -- Charles.   1

Response to (journal, 14086,), Print Journal

(J14113)   29-JAN-73 12:24;   Title: Author(s): Irby, Charles H./CHI;
Distribution: Crocker, David H., Kaye, Diane S., Lehtman, Harvey G.,
Irby, Charles H./DHC BUGS; Sub-Collections: SRI-ARC BUGS; Clerk: CHI;

Visit Log: 29 Jan 73, Karl Zinn, University of Michigan, Center
for Research on Learning and Teaching (CRLT)

Visit Log: 29 Jan 73, Karl Zinn, University of Michigan, Center
for Research on Learning and Teaching (CRLT)

Spent quite a bit of our time talking about the Community
Workshop idea as applicable to the CBI Community. I gave him a
copy of (12445,), which we referred to quite a bit during our
visit.   1

   For instance, Karl has been getting Journal distribution from
   the CBI sub-group that Tom O'Sullivan set up in the NIC
   Journal.   1a

Karl and I had some years ago entertained fairly seriously the
possibility of jointly working up a Summer "Institute" or
"Workshop" here at ARC, composed of computer-associated
teaching/learning research guys (from universities) working
together on ideas where their discipline and ours overlap. Had
the idea that we might be able to get NSF or some other agency to
sponsor such a thing.   2

   The idea now has even more relevance, and we both are
   interested in considering it anew.   2a

   Karl would be interested in giving the possibility some
   thought, and can consider helping enlist participants, plan
   the get-together, running it, working on the post-meeting
   "Proceedings," or etc. (most of this list was entered by DCE
   as candidates for Karl's consideration).   2b

   His interest must really depend upon what the payoff will be
   to his discipline and his career; and ARC would have a similar
   set of consideratons involved in committing itself to one or
   more such gatherings. But the potential value seems high (to
   me) for ARC's Community Workshop promotion and evolution --
   and, if our commitment is allowed to continue on through the
   years, so that indeed these Communities do emerge and evolve,
   then I'd guess that for Karl and other enlistees there should
   be some very real gains to balance off against the time,
   energy, etc. (in other words, I think that we could feel
   honestly that we were offering them a good thing).   2c

I told him of ARPA Human Resource Office's interest in a
possible CBI Network Community, and of Tom O'Sullivan's starting
on 1 Feb 73 to work in that office for its director, Col. Austin
Kibler. (Phone: 202 694-5917) He should contact them.   3

Karl has contributed a lot to his discipline by publishing
surveys, putting together conference proceedings, etc. I think
that we have a fair set of his works in XDOC, and I am asking

Visit Log: 29 Jan 73, Karl Zinn, University of Michigan, Center
for Research on Learning and Teaching (CRLT)

Karl to send me copies and citations to update our XDOC
collection of his work.   4

To update Karl's own bibliography on us, I gave him copies of: 5

    Engelbart/English FJCC68 paper: (3954,)   5a

    March 69 RADC   5b

    April 70 RADC,   5c

    July 70 RADC   5d

    DCE "dinosaur" paper: (5255,)   5e

    Jun 71 RADC   5f

    Sep 71 Lindgren's Innovation article: (10480,)   5g

    Apr 72 ONR (10045,)   5h

    May 72 RADC (13041,)   5i

    Oct 72 paper on KW Architect Community (12427,)   5j

    CCC paper, "Coordinated info sys ... Communities," (12445,)   5k

    Our Publicaton list (incomplete -- no entries after #19, July
    70, and no XDOC/Journal numbers)   5l

    Quickprint of the biblio list from (Jernigan, Jbiblio,1F).   5m

Action Notes: 6

    We (ARC) should consider workshops (such as mentioned above
    for CBI types) for other collections of participants: e.g.,
    from Operations Research, Software Engineering, Large- and/or
    Distributed-Project Management, Organizational Development,
    Information Services, Technical Documentation and Publication,
    or etc. It would have tremendous positive impact on ARC, on
    SRI, and probably on a number of these groups; it would
    provide a very valuable sort of calibraion of our Community
    (and) Workshop ideas; and it very likely would do more for
    launching some of the Communities than almost anything else
    (that I can think of).   6a

    (Note, after Karl left: I really think that he could fill an

Visit Log: 29 Jan 73, Karl Zinn, University of Michigan, Center
for Research on Learning and Teaching (CRLT)

important role in getting Kibler's CBI Community going with a
Communiy Workshop. As I portrayed to Karl, it takes a sort of
tripod to make it happen: sponsorship from outside the
Community; Knowledge Workshop Utility Servicee dedicated to
serving the (such) communities; and one (or a group of)
Community Workshop "architect(s)" working from within the
Community. Kibler/O'Sullivan may be able to supply the first,
ARC and its Workshop Utility commitment can perhaps supply the
second, and Karl Zinn is the type of Community-architect
candidate that every Community should find. I think this all
warrants our continued attention.)   6b

Visit Log: 29 Jan 73, Karl Zinn, University of Michigan, Center
for Research on Learning and Teaching (CRLT)

(J14114) 29-JAN-73 15:55;   Title: Author(s): Engelbart, Douglas
C./DCE ; Distribution: Norton, James C., Watson, Richard W., Kudlick,
Michael D., Rech, Paul, Brown, David R., Cox, Bonnar/jcn   rww   mdk   pr
drb   bc ; Sub-Collections: SRI-ARC; Clerk: DCE ;

Outline for DCE's presentation of 24 Jan 73 at the Computer
Communications Conference, San Jose

Outline for DCE's presentation of 24 Jan 73 at the Computer
Communications Conference, San Jose

Following is the outline of my slide-movie presentation for the
Second Annual Computer Communicatons Conference at California
State University, San Jose, 24 Jan 73 (the presentation
associated with the written paper -- 12445,).   1

    The ordinal numbering coincided with the side-carousel slots,
and the letter-number designations are those marked on the
slides.   Set G was made on Friday, 19 Jan, and Sets A, B, C,
D, E and F were made on Monday 22 Jan 73, all by Bill Harris,
SRI photographer.   1a

      Note: Older sets of slides have the A, B,... letter
series, too; I put the letters in red on these new ones to
help differentiate.   1a1

    For the movie run, I used Reel One of our ASIS69 movie,
starting at about the 10-minute point, where I am introducing
the control devices, and running about 15 minutes -- getting
into the dialogue with Dave Evans and his inroductory
demonstration of DNLS.   1b

    The Proceedings of the Meeting are in XDOC (13332,).   1c

Knowledge Workshop, what we are used to: 2

   1   B10 Specially set-up corner of PR's office, as heavy
sample workshop area -- books with markers, dictionary,
reports, desk calculator, glasses, phone, phone message, phone
books, -- blackboard with "SAVE", DO NOT ERASE. -- too far
away to have all impact that the collection on table cold
bring.   2a

   2   A14 Walker office, Don, Ann Robinson, and DCE   2b

   3   A20 Bill Kautz and office   2c

   4   A9 Coffee Break, 5 (DCE)   2d

   5   A19 Goldberg-Group Bulletins and Periodicals   2e

   6   A18 Mildred Kelley and files   2f

   7   A12 Group-X Library,   2g

   8   B17 SRI Mail cart and delivery man, JFV in background
looking at bulletin board   2h

Outline for DCE's presentation of 24 Jan 73 at the Computer
Communications Conference, San Jose

ARC's Equipment: 3

  9   D8   PDP 10, WRF JCP at console   3a

  10 D11 Disk packs, WRF and JCP changing disk pack   3b

  11 D4   IMP, TTY, Modem cabinet   3c

ARC's Knowledge Workshop environment: 4

  12 D18 DCE at console in office   4a

  13 C16 Commons, 4 cons, JBN JFV JEW DSK (Good shot)   4b

  14 B20 JBN facing camera, at her work station, of which top
of display box is barely in view -- past her work-aid tabl
(coffee cup, papers) to back of DCW sitting at his DNLS
station, with WRF leaning over. Unused DNL consold standing
to right. Schedule board visible over DCW's head.   4c

  15 B15 IMLAC Station, over left shoulder of CHI, mouse,
keset, op console   4d

  16 D3   Proj Meet, Audience proj and controls, JCN, JFV MEJ
JBN CFD BAH MEH   4e

  17 C20 Proj Meet, Screen, JCN, JBN MEH BAH MEJ CFD JFV   4f

  18 A4   Conf DVN Linked, DCE   4g

** 19 C13 NLS Src Docs, JFV   4h

  20 C7   ARC Ref shelves, DCE   4i

  21 B1   DEX input, LLL   4j

  22 B5   PSO/NIC mailing, table, Xerox, Susan and Carol   4k

  23 B8   NIC Phone, Susan, shelves with NIC collectioon,
Station log   4l

  24 C4   Vault JBN   4m

** Short movie run -- then Screen Shots: 5

View dropping into 12445, the CCC paper   6

Outline for DCE's presentation of 24 Jan 73 at the Computer
Communications Conference, San Jose

25 G27 12445,1:xbh, "Command Reset"   6a

26 G34 JI Bugsel gc from x view of 12445   6b

27 G32 ** gct, JI Bug dds, w.   6c

28 G33 after J I, full-screen Stat "The second ...."   6d

29 G35 12445, Proto Com-Wksh Sup, xbh, "Move Branch" SEL1   6e

30 G36 12445, Proto Com-Wksh Sup, xbh, "Move Branch" effect   6f

Signatures, for recent-change infor, and TD-item link use   7

31 G20 In Work,TD, ready to jump link for Signature view   7a

32 G21 Signatures on after Jump to Link (12445,1:mxbhK)
(POOR Chars)   7b

User-prog counting words in a file   8

33 G19 View xh, "Word Count of File is 3706" on 12445   8a

Read Journal Mail series   9

34 G1 DCE TD Br gebbt, JL on "read Jou mail" (DCE, journal:
gebszm)   9a

35 G2 DCE Jou Br, gebszm, JL ready   9b

36 G3 DCE Jou Br (tz), JL ready (not bugged)   9c

37 G6 DCE Jou Br, JI Bugsel (MEH) l   9d

38 G8 V=wg at MEH 13588 citation, Horiz Split Bugsel   9e

39 G9 JL to empty lower window,   9f

40 G10 After JL, three stats in lower window   9g

41 G11 DCE Jou Brn ebtry, compiling conan for "MDK" author   9h

42 G12 1g, 1h, 1p 1ac 1co from conan filter on "MDK   *"   9i

43 G13 Bugsel for executing Sort Plex on DCE Journal Branch:
ebt   9j

Outline for DCE's presentation of 24 Jan 73 at the Computer
Communications Conference, San Jose

Outline for DCE's presentation of 24 Jan 73 at the Computer
Communications Conference, San Jose

57 E11 FJCC 71 page, three Figs: Block Diag, Pictorial of
scopes and equip, and equip-config chart. Captions, labels,
full page.   15a4

58 E13 Full page, two Figs, showing segment and argument
management schematics for file structure. Labels, short
captions, page text.   15a5

Our COM-output samples   15b

57 E6 12445 Table of Contents as from COM   15b1

60 E8 COM Output Processor Guide, from COM (PxIX PxN)   15b2

61 E9 NIC Author Index via COM   15b3

Outline for DCE's presentation of 24 Jan 73 at the Computer
Communications Conference, San Jose

(J14115) 29-JAN-73 9:30;   Title: Author(s): Engelbart, Douglas C./DCE
; Sub-Collections: SRI-ARC; Clerk: DCE   ;

I just used Sendprint and printed the result. It brightened my
day muchly.

However (however's seem to always crop up):

By the time this is incorporated into the Output processor (or
whatever) please provide for:

No Rubouts; i.e., just shooting the bytes out (aother option?),
without worrying if the receiver has completed his formfeed. it
shows up as '? marks on out printer. tns.

1

(J14116)   29-JAN-73 11:49;   Author(s): Crocker, David H./DHC;
Distribution: Wallace, Donald C. (Smokey)/DCW; Sub-Collections: NIC;
Clerk: DHC;

Dirk,   What is the easiest way to specify a group of directives
which are used regularly, to save from typing all of them, each
time?

Also,   thanks for including me on the list of people to be
consulted before the 'commands changes'.   Ari, tho, feels that
"rfc"'s such as those should go to a larger group; e.g.,
liaisons, to get more feedback..   Thought I'd pass his comment on
to you.

1

(J14117)   29-JAN-73 11:52;   Author(s): Crocker, David H./DHC;
Distribution: Van Nouhuys, Dirk H./DVN; Sub-Collections: NIC; Clerk:
DHC;

Results of speeding up ldchr, chbptr, apchr, and string compare routines:

These and other changes and results are documented in (andrews,nlsrecord,).

Results of speeding up ldchr, chbptr, apchr, and string compare
routines:

The time spent executing the string compare and ldchr, chbptr
code went from about 4.7% down to about 1.7% Because those
routines do not call chbptr to compute byte pointers, and because
strings are compared a word at a time, many fewer call and
returns are made: The time spent in the call-return mechanism
went from about 20-22% down to about 15-17%.   1

Results of speeding up ldchr, chbptr, apchr, and string compare
routines:

(J14118)   28-JAN-73 14:50;   Title: Author(s): Andrews, Don I./DIA;
Distribution: Victor, Kenneth E. (Ken), White, James E. (Jim), Dornbush,
Charles F., Michael, Elizabeth K., Vallee, Jacques F., Mitchell, James
G., Deutsch, L. Peter, Kaye, Diane S., Andrews, Don I., Bass, Walt,
Hopper, J. D., Irby, Charles H., Lehtman, Harvey G./NPG;
Sub-Collections: SRI-ARC NPG; Clerk: DIA;

I used the system described in the link above to submit this
message. Pay no attention to the "not for network users"--if you
get this message it works over the network.

NEW JOURNAL COMMAND FORM

There is a new method of submitting files and messages to the
journal. A brief description contained in (nls,status,1a35). It
is alittle easier in that it allows you to use'all the editing
commands available in NLS etc.   1

NEW JOURNAL COMMAND FORM

(J14119)   29-JAN-73 13:53;   Title: Author(s): Stone, Duane L./DLS   ;
Distribution: McNamara, John L., Bair, James H., Lawrence, Thomas F.,
Norton, James C., Kennedy, Edmund J., Panara, Roger B., Bethke, William
P./jlm   jhb   tfl   jcn   ejk   rbp   wpb   ; Sub-Collections: RADC; Clerk:
DLS   ;

NLS Links Win Again-- See (14061,)

The links given in your message are syntactically incorrect and
therefore will not get you into the proper journal file. The
links are for FILE Journal, statemenst number jnl#. The syntax
desired is (journal, jnl#,). (Since, in the case of journal
documents, the directory is irrelevant because everything goes
throught the catalog, the variation (jnl#,) will work.) THE
COMMA IS ESSENTIAL-- otherwise the syntactic definition of links
takes it for a statement name or number. CASE IS ALSO IRRELEVANT   1

NLS Links Win Again-- See (14061,)

(J14120)   29-JAN-73 12:40;   Title: Author(s): Lehtman, Harvey G./HGL;
Distribution: Kaye, Diane S., Lehtman, Harvey G., Irby, Charles H.,
Crocker, David H., Van Nouhuys, Dirk H./bugs   dhc   dvn   ;
Sub-Collections: SRI-ARC BUGS; Clerk: HGL;

OUTLINE OF NIC ACTIVITIES OF INTEREST TO JBN   JBN 4-JAN-73;

NIC DAY-TO-DAY   1

    Supervision of the NIC activities of PSO   1a

        [As Susan becomes more experienced, this work will take
        less time.]   1a1

    Routine document requests, by Network and outsiders   1b

        [The volume of this work should grow; some can be handled
        by Susan, some need retrieval help until better catalogs
        are built.]   1b1

    Literature searches   1c

        [This service is not yet developed; a few requests have
        come in; more should be done; Jake has the background for
        this.]   1c1

    NIC Catalog and Directory production and distribution   1d

        [Scheduled production is needed; higher priority for
        people and machine resources; steady, gentle supervision.] 1d1

    NIC Announcement Bulletin   1e

        [Inauguration and then scheduled production needed; same
        supervision as above.]   1e1

    Catalog and collection building   1f

        [Document resources for Network interests should be
        expanded; a planned bibliographic growth as contrasted with
        the haphazard development resulting from literature search
        requests; Jake could handle.]   1f1

    Collection building   1g

        [Of the references cataloged, documents in fullsize and/or
        micro should be selected for acquisition. Barbara started
        doing some of this 30-NOV-72.]   1g1

NIC MEASUREMENT AND EVALUATION   2

    Service levels and satisfaction   2a

        [Nothing done on this; an apparent necessity if the
        activity is to be related to research.]   2a1

Costs   2b

    [Some data on these, but models should be designed and
    regular data collection should be carried out.]   2b1

NIC PLANNING   3

Better service   3a

    [Faster response; more communication with Liaisons and
    Agents; more initiative in support documents such as
    calendars, folklore.]   3a1

New services   3b

    [Selective dissemination; document production; document
    reduction; etc.]   3b1

NETWORK JOURNAL   4

Proposal   4a

Design of online and hardcopy outputs   4a1

   Format for online distribution   4a1a

      Announcement of papers, letters, reviews, with links   4a1a1

      Full text distribution format   4a1a2

      Graphics?   4a1a3

   Format for hardcopy distribution   4a1b

      Announcement of papers, letters, reviews, with order
      forms   4a1b1

      Preprint format   4a1b2

      Traditional journal format   4a1b3

Publication schedule, both online and COM   4a2

Design of system for submission of material, for
referreeing   4a3

   Unedited submissions   4a3a

OUTLINE OF NIC ACTIVITIES OF INTEREST TO JBN   JBN 4-JAN-73;

(J14121) 29-JAN-73 12:40;   Title: Author(s): North, Jeanne B./JBN;
Distribution: North, Jeanne B./nicsta ; Sub-Collections: SRI-ARC
NICSTA; Clerk: JBN;
Origin: <NORTH>FOR.NLS;6, 4-JAN-73 10:11 JBN ;

Response to (14094,) re DEX Tape Entry.

   re: night entry of DEX tapes..... yeah. now to get more DEX
tapes instead of TNLS direct.. we need to examine priorities (we
users) and really get DEX used where it doesn't make a difference
to wait.   1

Response to (14094,) re DEX Tape Entry.

(J14122)   27-JAN-73 12:02;   Title: Author(s): Norton, James C./JCN;
Distribution: Lane, Linda L., Byrd, Kay F., Van Nouhuys, Dirk H.,
Kelley, Kirk E., Jernigan, Mil E., Watson, Richard W., Kudlick, Michael
D., North, Jeanne B./LLL KFB DVN KIRK MEJ RWW MDK JBN; Sub-Collections:
SRI-ARC; Clerk: JCN;

Response to (14102,) on the X-PARC XGP Proposal Reply

Walt: re (14102,), your draft reply to X-PARC's XGP proposal....
good, although it needs a "thanks anyway" flavor when sent to
them. Who does it go to? WKE or who?   1

Response to (14102,) on the X-PARC XGP Proposal Reply

(J14123)   29-JAN-73 8:00;   Title: Author(s): Norton, James C./JCN;
Distribution: Watson, Richard W., Engelbart, Douglas C., Bass, Walt/RWW
DCE   WLB ; Sub-Collections: SRI-ARC; Clerk: JCN;

Net Port Unavailability

Net Port Unavailability: there are not enough NET ports.   1

   Today a serious problem AGAIN reared its ugly head.   The
system load was 1.94 at 0900EST with 14 jobs and RADC could
enter only 4 users. This is a potential system unavailabity
for 14 users at RADC. (The other 4 ports were in use by ARPA,
Mitre, Case &, BBN.)   1a

   The system could have obviously handled additional users
without degradation of service quality.   The users who were
refused access were attempting to use the system for their
daily jobs, a high pressure situation with low CPU
requirements. The purpose for this use is to analyze the
implementation of AHI in a real working environment as a
tool to complete jobs rather than as an end in itself.   1a1

   The only conclusion that can be drawn from this data
(recurring) is that Net ports must be added, at least
for use before 1100EST.   The consequences of not doing
this are to render an investigation and investment of
over a 1/4 million near meaningless.   This spurious
variable can completely destroy the validity of studies
of usage--how can that be done if the system is
unavailable for use?   1a1a

Net Port Unavailability

(J14124) 29-JAN-73 7:36;   Title: Author(s): Bair, James H., Stone,
Duane L./JHB   DLS ; Distribution: Irby, Charles H./np ; Keywords: net
radc access use; Sub-Collections: RADC NP; Clerk: JHB;