

Impact Statements on FY74 Deferred Items

impact statements are provided to AFSC regarding the items which make up the deferred \$1.9 million FY74 funds.

Impact Statements on FY74 Deferred Items

From: ISIM/(Mr. Panara/330-3857)

To: AFSC/(DLC/Lt Col McGinnis)

Subject: P.E. 63728F, Advanced Computer Technology - Impact of FY74 Funds Reduction (Reference DLC message R281700Z Nov73)

1. This project is a broad based computer technology program and addresses many critical Air Force problems in this area. Recognition of this fact is borne out by General Brown, Commander AFSC, giving direction to his staff (General Alder in particular) in FY-73 to reprogram funds from other program elements to insure that proposed work in this project be funded. Although funds could not be identified from 6.3 in FY-73, we were able to get two tasks, Security and Software Reliability started by using exploratory development funds and delaying the start of some efforts for which these funds were identified.

2. The \$1.9 million FY-74 funds being impacted herein represent funds intended to be in direct response to the above direction. In anticipation of the release of these funds on 1 Jan 74, efforts have been incrementally funded to 1 Jan 74, expecting that the release of funds would carry these efforts to 30 Jun 74, and procurement actions have been started for new efforts to insure contract awards in early 1974.

3. The individual cases have been reported in impact statements received from ESD/MCI, Message P041730Z Dec 73 and AFAL/TEA-2, Message R051555Z Dec 73. The remaining tasks/efforts are discussed on Attachment 1.

4. AFAL has stated that the funding requirement for its task has changed because of the three month delay in the release of funds. Therefore if these funds are released they will be used to fund over ceiling efforts in the Associative Processor task (i.e. (1) to MITRE to explore the applicability of associative processing to ESD system enhancement programs such as NORAD CMC Improvements, Tactical Air Control & Monitoring, and Multisource Information Information Correlation and (2) for a Signal Processing study designed to make the associative capability integral to a radar system thereby increasing the effectiveness and adaptability of the radar) and Security task.

5. It is felt that prior to any cut-back, AFSC should assess the priority of work in this project as compared to other 6.3 work and resist the temptation to cut back because the funds are deferred. The cut-back, based on past experience, will affect the release of FY-75 funds and therefore; as has been the case over the past two years in this program element, planning based \$3.2 million FY-75

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ceiling is difficult to say the least. If only \$1.0 million is released in FY-74, then it is expected that only a maximum of \$1.0 million will be released in FY-75 until the FY-75 appropriations bill is signed. Further, there will be a stipulation that there can be no new starts. This could mean that this same problem will be facing us next year and USAF will still have a weak advanced development program addressing its problems in the computer technology area.

8

FOR THE COMMANDER
Col Thayer

1 Atch
Effort Impact Statements

9

coordination ISIM ISI ISC DOT

10

Info: ESD/(MCI/COL O'Keefe)
LG Hancom Fld Mass

11

AFAL/(TEA-2/Mr Conklin)
WPAFB Ohio

12

DOT/Mr Craig

13

Impact Statements on FY74 Deferred Items

TASK IMPACT STATEMENTS

Task 01 Associative Processor: (\$215,000)

14

15

Interactive Display Interface - All hardware aspects of this task are started or have been completed with the exception of a suitable display. The nature of functions such as those being investigated for AWACS applications require an interactive display with both alphanumeric and graphics capabilities. Such a system has been defined. It consists of the RADC owned Tactical Modular Display and digital-to-video converter interfaced to the associative processor. If the FY74 funds are cut-back, the display interface hardware will not be built and it will be difficult to meet the SAF/R&D directive to demonstrate the advantages to be derived in processing real time data using an associative processor.

15a

Data Manipulator - The full power of associative processing devices can be realized only if the parallelism of the problem at hand is totally exploited. Under the present configuration this can not be done, namely when data residing in a set or sets of processing elements (PEs) memories must be transferred to other sets of PEs. This occurs in matrix operations, tracking, weather forecasting and many other important application areas. A data manipulator has been designed by Syracuse University under RADC contract. It can create all possible communication paths between groups of PEs so that the heretofore time consuming operation can be conducted in a manner which significantly increase the utilization of the associative processor. Further, it is possible to bypass faulty PEs causing only slight degradation to system operation - a feature felt to be important to real time airborne systems. If this data manipulator is not built, it means that it will have to be built for future systems applications as high risk untried and untested hardware.

15b

Syracuse University - The present contract will be completed in Feb 74 at which time a new contract will be negotiated for 24 months. Personnel at the university have been an integral part of the associative processor team since this task was approved. Past work has lead to design of architecture for increasing the efficiency of associative systems and efficient algorithms for utilizing this hardware. Loss of these team members will seriously curtail timely demonstration of the associative processor capabilities.

15c

Impact Statements on FY74 Deferred Items

Library Routines - The AWACS functions being implemented by RADC and Boeing Computer Services Company require trigonometric routines. If these routines are available as library routines, it means in-house and contractor personnel requiring the use of such routines in their applications programs will have them already written thus eliminating the need for duplication of effort and unnecessary expenditure of contract dollars. Further, these routines will be available for future application programming efforts.

15d

Fast A Programming Language (APL) - APL is a concise and precise programming language and is well suited for describing the associative processing architecture design which will result from this task to support air surveillance systems. The objective of this effort is to provide RADC with a reliable and useful APL for describing and exercising the evolving associative processing computer system. Without this capability, the specification for the follow-on associative processor will be ambiguous. An added benefit of this contract is that as a result of this development, all government MULTICS users will have this capability available to them on their machines.

15e

Task 08 Software Certification, Reliability and Timeliness:
(\$520,000)

16

Failure to release funds for this task means that the Air Force will not have a program to assess whether or not Structured Programming is an effective means for producing software and reducing the cost for producing software nor will it have a program to optimize higher order languages and produce non-ambiguous language specifications. The net effect is that the Air Force will not be tackling one of its most significant problems in an effective manner - namely the problem of reducing the skyrocketing software costs.

16a

The Software First program is zero-funded past FY74, pending a more complete definition of the Software First concept and the hardware to support it. RADC programmed \$50,000 in FY73 (Exploratory Development) and \$50,000 in FY74 (Project 5550) to sponsor a study to define the concept and \$40,000 of the deferred money to expand the study to define the hardware to support it. If the deferred money is not forthcoming, this hardware definition will not be completed, the expertise will be dispersed at the completion of the concept study and the program will come to a standstill.

16b

Task 09 ADP System Security: (\$620,000)

17

Impact Statements on FY74 Deferred Items

Impact has been forwarded to you by ESD/MCI - reference ESD/MCI
message P041730Z Dec 73.

17a

Impact Statements on FY74 Deferred Items

Task 10 Semi-automated Requirements Analysis: (\$15,000) 18

Impact has been forwarded to you by ESD/MCI - reference ESD/MCI message P041730Z Dec 73. 18a

Task 11 High Capacity Aerospace Components : (\$290,000) 19

Impact has been forwarded to you by AFAL/TEA-2 -reference AFAL/TEA-2 message R051555Z Dec 73. In the message AFAL stated that all of the above funds could not be expended in FY74. Refer to the cover letter, paragraph 4 for other uses for these funds. 19a

Task 13 Multi-Source Data Fusion: (\$40,000) 20

The objective of this effort is to conduct an initial study to identify and characterize the various categories of Air Force Command and Control fusion processes and to assign a priority to each based on expected impact on Command and Control missions. It is planned to follow this study with actual technique developments for specific fusion usage categories. If the funds are not made available, it means that this study will be delayed for a minimum of one year and that the Air Force will be delaying the implementation of a technology which promises to increase the effectiveness of Command and Control missions by orders of magnitude by providing the capability to identify significant changes in domains of interest in a timely manner through the automatic fusion of data from multiple sources. 20a

Task 14 Source Data Automation: (\$200,000) 21

There are two efforts planned under this task which will be impacted: 21a

Global Weather Central - The objective of this effort is to upgrade the capability for weather forecasting by the AF Global Weather Central (AFGWC). The effort was initiated in FY73 when it appeared there was a possibility for getting additional FY73 funds. RADC/IS evaluated proposals from two contractors in May 1973 and has been awaiting release of funds. The upgraded capability has been scheduled for use on a classified project by the Special Projects Office/AFGWC in Sept 74. We estimated this schedule could be met if funds were released in Oct 73. Slippage is estimated to be on a one-to-one basis (i.e. one month delay in release means one month delay in operational capability). The slippage is based on one other important factor: that the contractor prices remain firm. If they do not, it will mean a delay because the procurement process will have to be recycled. Although we already will slip two months on the IOC based on a 1Jan74 release, AFGWC has an approved DAR for this work and if

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funds can not be obtained from this project, another source will have to be found; otherwise a bona-fide requirement will remain unsatisfied.

21b

Impact Statements on FY74 Deferred Items

Airborne Command and Control Display Console - This effort represents work designed to satisfy a technology need originated by ESD and also represents the conclusion to the RADC Plasma Display Development Program after several years of exploratory development investigations. Its objective is to provide a militarized display that is better suited for the airborne and tactical environments than the existing cathode ray tube types because it is inherently more reliable, more rugged, smaller, lighter, and consumes less power. If this program is prematurely terminated because of the lack of funds, airborne systems such as 481B (AABCP) and 411L (AWACS) will have to continue using a technology that is not best suited for operation in their environments. Also, many redundant units will be necessary to achieve a satisfactory reliability due to system degradation anticipated over the mission period. Such redundancy is costly.

21c

Impact Statements on FY74 Deferred Items

(J20842) 11-DEC-73 05:52; Title: Author(s): Roger B. Panara/RBP;
Sub-Collections: RADC; Clerk: RBP;
Origin: <PANARA>IMPACT.NLS;1, 11-DEC-73 05:48 RBP ;

<TENEX-DOC> to be deleted at the request of DCW.

The NIC would like to move the JSYS Manual and Tenex User Guide currently in NIC directory <TENEX-DOC>. This would allow us to delete <TENEX-DOC> as it conflicts with the name of another directory. <DOCUMENTATION> would become the home of these files. If you have no objections, a formal notice and action will happen December 20.

1

20843 Distribution

Jerry D. Burchfiel, William W. Plummer, Donald C. (Snokey) Wallace,
Michael D. Kudlick, Kenneth E. (Ken) Victor,

KIRK 11-DEC-73 08:53 20843

<TENEX-DOC> to be deleted at the request of DCW.

(J20843) 11-DEC-73 08:53; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /JDB WWP DCW MDK KEV; Sub-Collections: SRI-ARC; Clerk:
KIRK;

An Interesting Weekend Seminar

A Very Good Weekend Seminar

1

I would like to bring to your attention that there is an excellent weekend seminar which is being offered presently once a month in San Francisco.

2

It deals with relationships in all its forms; friends, marriage, children, business relationships, work, or whatever relationship is important in your life. Its purpose is to lead participants towards more clarity, greater certainty, and more fun. And they really do a good job at it.

3

The seminar is called "Together" and is run by Ron and Alexandra Seigels. (They also conduct seminars on Communications and on Fundamentals of Certainty). It costs \$30.

4

Should you be interested in finding out more about it, you can call:

The "Natural Learning Center"
1921 Vallejo St.
San Francisco, Ca. 94123
Tel. 929-0444

5

6

20844 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
James H. Bair, A. Jim Blum, Meredith (Reddy) E. Dively, Jeanne M.
Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marc 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, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Douglas C.
Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper,
Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, Jeanie B. North,
James C. Norton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

An Interesting Weekend Seminar

(J20844) 11-DEC-73 09:22; Title: Author(s): Paul Rech/PR;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clark: PR;
Origin: <RECH>SEM.NLS;2, 11-DEC-73 09:19 PR ;

Bibliography on the Economics of Information

This bibliography was given to me by Mike Rothkopf. He told me that I can publish it in our Journal System.

Bibliography on the Economics of Information

BIBLIOGRAPHY ON THE ECONOMICS OF INFORMATION
AND THE ROLE OF INFORMATION IN ECONOMICS

1

NOTE:

2

Mike Rothkopf of XEROX very obligingly shared with me his bibliography on the economics of information. I list it here for those within ARC who are interested in that subject.

2a

Mil Jernigan is acquiring these papers for us. Please contact her if you want to see them.

2b

JACOB MARSCHAK'S VIEWS:

3

"Organizational Economics of Planning" Abstract of a Talk to the AAAS 12/28/65

3a

"Decision Making: Economic Aspects" "International Encyclopedia of the Social Sciences", 4, pp. 42-55, 1968

3b

"Economic Planning and the Cost of Thinking" "Social Research" 33 (1966)

3c

"Economic Comparability of Information Systems" "Internat. Econ. Rev.", 9, (1968).

3d

"Economics of Inquiring, Communicating, Deciding" "An. Econ. Rev.", 58, (1968)

3e

"Problems in Information Economics" "Management Controls: New Directions in Basic Research" McGraw-Hill, 1964

3f

COMPUTER SYSTEMS

4

Bonney, M. C., "Some considerations of the Cost and Value of Info." "Computer Journal" 12, (1969), pp. 118-123.

4a

PARTICULAR ECONOMIC AND PANNING MODELS

5

Borch, K., "the Opt. Mgnt. Policy of an INsur. Co." "Proc. of the Casualty Actuarial Society, 51, (1965).

5a

Kriebel, C. H., "Quadratic Teams, Information Econ., and Aggrgate Planning Dec." "Econometrics," 36, (1968).

5b

Nelson, R. R., "Uncertainty, Prediction, and Competitive Equilibrium," "Quart. Journal of Econ.," 75, (1961).

5c

Smith, K. R., "the Effect of Uncertainty on Monopoly Price,

Bibliography on the Economics of Information

Capital Stock and Util. of Cap." "Journal of Econ. Theory", 1, (1969) 5d

GENERAL EQUILIBRIUM 6

Borch, K., "General Equilibr. in the Econ. of Uncertainty." "Risk and Uncertainty" Macmillan, 1968. 6a

Borch, K. "Equilibr., Optimum, and Prejudices in Capital Markets" "Behav. Sci", 14, (1969). 6b

Arrow, K. J., "Le Role des Valeurs Boursieres Pour la Repartition la Meilleure des Risques" Franc. Centre National de la Recherche Scientifique", 40, (1953) 6c

Allais, M. "L'Extension des Theories de l'Equilibre Economique Genral et du Rendement Social au Cas du Risque" "Econometrica", 21, 1953. 6d

Radner, Roy, "Competitive Equilibrium under Uncertainty" "Econometrica", 36, (1968) 6e

20845 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
James H. Bair, A. Jim Blum, Meredith(Reddy) E. Dively, Jeanne M.
Leavitt, 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, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Douglas C.
Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper,
Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtnan, Jeanne B. North,
James C. Norton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

Bibliography on the Economics of Information

(J20845) 11-DEC-73 10:15; Title: Author(s): Paul Rech/PR;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: PR;
Origin: <RECH>ECON.NLS;3, 11-DEC-73 10:09 PR ;

A belated, but not too late announcement: The quarterly staff meeting for this quarter will be held tomorrow evening, Wednesday the 12th, at 8:00 p.m., in the Ness Auditorium of the I Building. Coffee and dessert will be served in the adjoining Exhibition Hall beginning at 7:30 p.m. Mr. Anderson, Dr. Gibson, and Mr. Robison will discuss SRI's relationships with the USSR and report on their recent visits to the Soviet Union. Mr. Robison will share with you, if you attend, a few of the slides he took while there. In addition, Mr. Anderson will report on SRI's performance and comment on the December meeting of the SRI board of directors. The Division Office has asked that invitations be extended to 5 (five) staff members from the Augmentation Research Center. Banking on past experience, and considering the late date of the invitation, it is assumed that there is very little danger that more than 5 staff members will be wanting to attend the meeting. If there are lots more that want to go, we can draw straws. If you want to go to the meeting, please let me know: I need to tell the Division office. Thanks.

1

20846 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
James H. Bair, A. Jim Blum, Meredith (Reddy) E. Dively, Jeanne M.
Leavitt, 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, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, 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, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

(J20846) 11-DEC-73 11:25; Title: Author(s): Jeanne M. Leavitt/JML;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: JML;

Output Processor User's Guide and DDSI Services

This information was distributed in hard copy along with the Output Processor User's Guide.

Output Processor User's Guide and DDSI Services

One feature of the Online System that we develop at ARC is the capacity to control layout of documents printed from our files. 1

As many of you know it is possible to insert directives in NLS which control the format of the printed page. Normally the pages are printed on a line printer, but it is also possible to print them via a CRT and Computer Output to Microfilm. From then you can make Xeroxes for proofing or plates for offset printing. This method of output allows a choice of type faces, proportional spacing with attendant increased density per page, columnation, and a variety of other typographic features. 2

The attached guide gives instruction for all these features and is itself an example. 3

A commercial COM service DDSI of Los Angeles prepares the microfilm, proof copies, or plates from NLS files. DDSI is a few blocks from ISI. We normally create files on our machine, move them to ISI via FTP where a messenger from DDSI picks them up. DDSI mails the output. The whole cycle takes about a week. 4

DDSI would be glad to have business from the Net. You may prepare a file through our Output Processor, and send it to DDSI either through the mail or via ISI. ISI is game to offer this service as long as requests to their operator to handle tape do not become too numerous. If you put your billing address in the file header, DDSI will make proofs, bill you, and mail the proofs to you. Appendix one gives DDSI's current prices. 5

DDSI also prints from a variety of tape formats. Appendix two describes their service in general. If you want to use their COM services without formatting via NLS, please get in touch with Robert Spencer at DDSI to arrange logistics. 6

If you have questions on any of these matters please feel free to ask me or Dean Meyer (Dirk van Nouhuys, 415 326-6200, x 3370; DVN@NIC Dean Meyer, 415 326-6200, x4372; NDM@NIC) 7

Appendix One 8

A. Photocomposed page on 35mm film. 8a

Single font \$ 2.20 page 8a1

Mixed fonts 2.60 page 8a2

Minimum amount 200.00 8a3

B. Copyflo bond proofs 8 1/2 x 11 8b

Output Processor User's Guide and DDSI Services

\$.10 per page 8b1

Minimum amount \$25.00 8b2

C. Camera ready copy - KP5 8c

\$.60 per page 8c1

Minimum amount \$25.00 8c2

Appendix TWO 9

October 12, 1973 9a

Dirk van Nouhuys
Dean Meyer
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025 9b

Dear Dirk/Dean, 9c

In response to your letter of September 28, I will try to describe
to you the services that we can provide to users of the ARPA
Network 9d

Our COMP-80 is able to perform 9e

1. Graphics from mag tapes formatted for the FRSD Displayer
package. (We can provide the specs needed to generate files in
this format). 9e1

2. SC4020 Simulation - High quality with the capability to go
"many up" (more than one image per frame). 9e2

3. SC4060 (Meta or IGS) simulation. 9e3

4. Calcomp Plotter simulation (we can handle SOME formats -
calcomp seems to have hundreds of formats). 9e4

5. Gerber plotter simulation. 9e5

6. Line Printer simulation with: 9e6

a. choice of any font (any size between 6pt. and 24 pt.) 9e6a

b. mono spacing with com fonts, proportional spacing with
graphic art fonts (soon). 9e6b

Output Processor User's Guide and DDSI Services

- c. Any set of carriage controls (as long as we know their positions and meaning). 9e6c
 - d. EBCDIC, G.E., Honeywell, Burroughs or BCD coding. 9e6d
 - e. Many images per frame. 9e6e
 - f. Fixed or variable blocking. (Best around block 10) 9e6f
 - g. Any line size (up to 255 Characters). 9e6g
 - h. Forms overlay. 9e6h
7. Text with illustration merge via our MISUR package. 9e7
- a. MISUR Phase I provides illustration merge with mono spaced com (stick fonts) only - basically straight print format with illustration merge and forms overlay capability. 9e7a
 - b. MISUR Phase II which provides the following: 9e7b
 - 1. Multiple Fonts - The number is limited only by the available disk storage. Font switching "on the fly" is available via carriage control. 9e7b1
 - 2. Change character size, spacing and feed on the fly - Also via carriage control. 9e7b2
 - 3. Monospaced AND proportionally spaced fonts. 9e7b3
 - 4. Horizontal justification (left/right) to a measure specifiable on the fly. 9e7b4
 - 5. Ability to specify (via carriage control) the starting position of a line on a page. (This permits user to specify multi-column formats). 9e7b5
 - c. MISUR II has these LIMITATIONS: 9e7c
 - 1. No font switching in mid-line when doing justified text. 9e7c1
 - 2. No stick-font capability graphic arts fonts only. 9e7c2
 - 3. No double-struck (by carriage control) characters in a line in proportionally spaced fonts (unless the entire line is double-struck). 9e7c3

Output Processor User's Guide and DDSI Services

4. No vertical justification, leading or pagination on the fly.

9e7c4

We will provide needed user specs upon request.

9f

I hope this is the information you hoped to receive. If you have any questions, I'm sure you'll call.

9g

Sincerely,

Floyd C. Dozier

9h

FCD/jp

9i

20847 Distribution

Douglas C. Engelbart, N. Dean Meyer, Richard W. Watson, James C. Norton, Michael D. Kudlick, Elizabeth J. (Jake) Fainler, Jeanne B. North, Ed H. Satterthwaite, Robert N. Lieberman, Jim O. Calvin, Duane L. Stone, Ernest H. Forman, Alex A. McKenzie, Joan T. Melvin, David C. Walden, Emir H. Shuford, Ira W. Cotton, David H. Crocker, David H. Crocker, John S. Perry, Steve D. Crocker, Jean Iseli, Nancy J. Neigus, Prentiss H. Knowlton, Jonathan B. Postel, Gordon A. Smith, Alan R. Hill, Michael R. Plesset, Alan R. Hill,

Output Processor User's Guide and DDSI Services

(J20847) 11-DEC-73 11:56; Title: Author(s): Dirk H. Van Nouhuys/DVN;
Distribution: /DCE(fyi) NDM(fyi) RWW(fyi) JCN(fyi) MDK(fyi) JAKE(fyi)
JBN(fyi) EHS RLL JOC DLS EHF AAM JTM DCW3 EHS2 IWC DHC DHC JSP SD32 JI
NJN PHK JBP GAS ARH MRP ARH; Sub-Collections: NIC SRI-ARC DPCS COM;
Clerk: DVN;
Origin: <VANNOUHUYS>DDSI.NLS;5, 11-DEC-73 11:45 DVN ;

new <NLS> file: EXECFL

I have created a new file in <NLS> called EXECFL. This was necessary because IOEXEC got too large for l10 to compile it. I have placed the routines that I have been writing for the exec file commands in EXECFL and removed them from IOEXEC. I updated <rel-nls>runldr. If I should have done anything else I didn't because this is all I know about, and no knowledgeable people were around when the crisis arose.

1

20848 Distribution

Donald C. (Smokey) Wallace, Kenneth E. (Ken) Victor, James E. (Jim) White, Charles F. Dornbush, Elizabeth K. Michael, Diane S. Kaye, Don I. Andrews, J. D. Hopper, Charles H. Irby, Harvey G. Lehtman,

new <NLS> file: EXECFL

(J20848) 11-DEC-73 15:18; Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /NPG; Sub-Collections: SRI-ARC NPG; Clerk:
KEV;

copy and show directory are useable

both copy and show directory should be useable in xnts. i know that there are still some problems with some of the syntax and will see to these when i get back. in the meantime you should be able to get some use from them. save any questions, gripes, etc. that may come up until i get back. see you all in a week or two.

1

20849 Distribution

Donald C. (Smokey) Wallace, Kenneth E. (Ken) Victor, James E. (Jim) White, Charles F. Dornbush, Elizabeth K. Michael, Diane S. Kaye, Don I. Andrews, J. D. Hopper, Charles H. Irby, Harvey G. Lehtnan,

copy and show directory are useable

(J20849) 11-DEC-73 18:05; Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /NPG; Sub-Collections: SRI-ARC NPG; Clerk:
KEV;

Meeting at MIT with John Davidson

(J20850) 11-DEC-73 19:32; Title: Author(s): John Davidson/JD;
Distribution: /JHS JD; Sub-Collections: NIC; Clerk: JD;

Meeting at MIT with John Davidson

prof. Saltzer; The aloha system at the univ. hawaii is initiating research in secure operating systems. In particular, we will be addressing questions of security for TENEX -- questions much like you are looking at for MULTICS. Steve Crocker has suggested I talk with you during the Christmas break when I will be on the East coast. Can we arrange this? Please SNDMSG to me at DAVIDSON at i4-tenex, and I will elaborate. John Davidson

1

20850 Distribution

Jerome H. Saltzer, John Davidson,

NORGE, NORGEBLAANENDE OPP AV DET GRAAGROENNE HAV DEYER OMKRING SOM
FUGLEUNGER FJORDER I TUNGER, UTOVER DER HVOR DET STILNER AV

1

(J20851) 12-DEC-73 00:59; Title: Author(s): O. A. Hansen/OAH;
Sub-Collections: NIC; Clerk: OAH;
Origin: <NORSAR-TIP>OAH.NLS;1, 12-DEC-73 00:54 OAH ;

Closing the loop

Al DeLucia is was my boss when I first came to the Center 12 years ago. Being a good civil servant, he's always looking for ways to save the gov't money. He sent me the trip report below, and asked me to check to see if the use of a PDP-15 front-end was feasible. Have you given this any consideration? Or is it incompatible with your PDP-10 configuration and NLS philosophy?

Closing the loop

TRAVEL DUTY REPORT

Name(s) of Traveler(s):

Al Delucia, IRD # 416

Name and address of place(s) visited:

a. ASIS National Conference, Los Angeles, CA

b. Center for Computer Based Studies, UCLA, Los Angeles, CA

Period covered

From:

21 Oct 73

To:

26 Oct 73

of days:

6

Purpose of visit:

a. To participate in panel discussion on Computer Networking and attend conference sessions for ASIS Annual Meeting.

b. Review draft of final TR and transition of inventory, and unliquidated funds from old to new contract for ARPA 1488; review progress of completion of ARPA 2098.

Persons contacted:

Major Dale Seastrom - USAF/PRCOM

Mr. Harvey Lehtman - SRI

Miss Pauline Atherton - Syr. Uni.

Mr. Peter Meinke - U. of Toronto

Mr. Robert Meeker - CCBS, UCLA

Mr. Miles Rogers - CCBS, UCLA

1

1a

1a1

1b

1b1

1b2

1c

1c1

1c1a

1c2

1c2a

1c3

1c3a

1d

1d1

1d2

1e

1e1

1e2

1e3

1e4

1e5

1e6

Closing the loop

Mr. Thomas Quigley - NSF	1e7
Minutes available? (yes or No--if yes when and where):	1f
No	1f1
Contract Number(s):	1g
F30602-70-C-0016/J. Trczpacz	1g1
Project Number:	1h
ARPA 1488	1h1
Task Number:	1i
0001	1i1
Commitments made? (yes or no):	1j
No	1j1
Follow up requirements? (yes or no--if yes complete next 3 items)	1k
Yes	1k1
ASAP	1k1a
Date Required:	1k2
A. DeLucia	1k2a
Responsible agency or individual:	1k3
See Paragraph B below	1k3a
Action Item:	1k4
Summary of events:	1l
<p>A. Major Dale Seastrom heard the traveler,s presentation on the Networking Panel entitled "Terminal Oriented Distributed Processing". He is assigned to USAF Directorate of Command Control and Communication and in a private discussion asked many questions about the exploratory development efforts supporting TOSS, namely TISS (Terminal Independent Support System), DPC (Distributive Processing Concept), CPA (Concentrator Processing Application) and TOSS Common User Capability. I gave him copies of the reports that I had with</p>	

Closing the loop

me. He will call IRD concerning the I&W program and it,s interfaces with Command and Control.

111

B. A Mr. Harvey Lehtman who works on the ARPA program for "Augmentation of Human Intellect" (AHI) at SRI indicated that the PDP-10 they are using is overloaded, a great deal of it in Input/Output processing. He agreed that distributed processing was the way to go and that they would be making a decision shortly on a minicomputer to work with their PDP-10. I strongly recommended that SRI look at the computer configuration at the Center for Computer Based Behavioral Studies (CCBS) at UCLA. Their computers consist of a PDP-10 supported by a PDP-15 for i/O processing. The PDP-15 at CCBS are unique in that they share a common core rather than hanging the PDP-15 on the PDP-10 as another peripheral. The software at CCBS is designed and oriented toward analyst on-line interaction and large segments of it could probably be used by SRI. Bob Meeker informed the undersigned that a PDP-15 may be available at SRI from the ARPA Automaton effort. I will take this matter up with Mr. Duane Stone, the RADC monitor for the AHI effort at SRI.

112

C. Miss Atherton and Mr. Meinke were interested in ARPA Network resources oriented toward analyst on-line interaction. They were unaware of the CCBS program nor the fact that they were on the ARPA Network. They met the undersigned at CCBS on 25 Oct and were briefed on the capabilities of the system.

113

D. The undersigned reviewed the inventory of ARPA 1488 data processing and support equipment. The list is to be coordinated with PM personnel prior to preparing for transfer of accountability to contract F30602-74-C-0015. Miles Rogers has been appointed as CCBS focal point for all external users. The status of completion and projected milestones for the CCBS interface to the ARPA Network were reviewed. The Final Report for 70-C-0016 will be a comprehensive document so that it can be used as a future handout to prospective users of the system. The final draft will not be received prior to 1 Jan. Delivery of the CCBS PDP-11/45 is still scheduled for 1 January 1974. Mr. Meeker indicated that they are much closer than originally estimated in providing an independent demonstration made of CCBS software for the RADC PDP-11/45.

114

Date:

1m

6 Nov 73

1m1

Symbol:

1n

Closing the loop

IRDA

1n1

Traveler:

1o

Closing the loop

(J20852) 12-DEC-73 09:28; Title: Author(s): Duane L. Stone/DLS;
Distribution: /HGL; Sub-Collections: RADC; Clerk: DLS;
Origin: <STONE>TRIPREPORT.NLS;1, 10-DEC-73 13:50 DLS ;

Comment on links

XNLS would not jump to link in one of my files; I changed their delimiters from anglebrackets to parentheses and then they worked. Comment: If there is a direct relationship here, it implies that I have to change scores of links in many files. Surely this is not true ??

20857 Distribution
New Nls,

Comment on links

(J20857) 12-DEC-73 12:09; Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /NEWNLS; Sub-Collections: SRI-ARC NEWNLS; Clerk: JMB;

NIC USER COMPUTER SERVICES TO BE TRANSFERRED TO A NEW HOST, OFFICE-1

NOTE: The following text is being advertised for the next several days (beginning 12-Dec-73) via a short message to NIC users at log-in time. The text is in <NIC>NEWS.TXT, and will be updated whenever new info warrants that.

The Network Information Center is planning to shift its computer user services to a new PDP-10 Tenex facility at TYMSHARE, Inc., in Cupertino California.

We expect the changeover to occur sometime shortly after 17-Dec-73.

The computer the NIC will be using will be connected to the ARPANET through a TIP at TYMSHARE.

The HOST NAME of the new facility is "OFFICE-1".

The HOST ADDRESS is 43 decimal (53 octal).

[TIP users of course use the decimal address, TELNET users the octal address.]

We will keep you informed, with messages like this at SRI-ARC, as to the exact date of the changeover. (The date depends on successful checkout of the TYMSHARE facility.)

AT THE TIME OF THE CHANGEOVER ALL PRESENT NIC USER DIRECTORIES, FILES, AND IDENTs, TOGETHER WITH ALL ONLINE NIC COMPUTER SERVICES, WILL BE MOVED TO THE NEW FACILITY, AND WILL NO LONGER BE ACCESSIBLE AT SRI-ARC.

The new facility will be operational Mondays through Saturdays, 5:00 AM to 9:00 PM Pacific Time.

The computer software available at the new facility will initially be the same as that at the present SRI-ARC facility.

The "group allocation scheme" developed at SRI-ARC will be used to guarantee access to an estimated minimum of four (4) NIC users at all times during the new facility's operational periods.

... Mike Kudlick

20858 Distribution

James H. Bair, Ferg R. Ferguson, Marcia Lynn Keeney, Michael D. Kudlick,
 Pam J. Klotz Cutler, Stan Golding, Steve G. Chipman, John P. Barden,
 Martha A. Ginsberg, Shirley W. Watkins, Janet W. Troxel, Connie D.
 Rosewall, Anita L. Coley, Carol J. Mostrom, Robert H. Thomas, Alan R.
 Hill, Abhay K. Bhushan, Robert P. Blanc, Barbara Noble, Leroy (Lee)
 C. Richardson, Frank G. Brignoli, Elizabeth J. (Jake) Feinler,
 Michael D. Kudlick, James E. (Jim) White, Michael A. Padlipsky,
 Kenneth L. Bowles, A. Wayne Hathaway, Jean Iseli, David H. Crocker,
 Nancy J. Neigus, Stephen M. Wolfe, Ronald M. Stoughton, Jim O.
 Calvin, Douglas C. Engelbart, James C. Norton, Richard W. Watson,
 James E. (Jim) White, Jeanne B. North, Elizabeth J. (Jake) Feinler
 Ruth Ann McDermott, Angie R. Yingling, Michael M. Dervage, Carolyn E.
 Taynai, Easter D. Russell, Leonard B. Fall, Peggy D. Irving, Roy
 Levin, M. P. McCluskey, Pitts Jarvis, Barbara A. Nicholas, Terence E.
 Devine, Paul M. Rubin, Paula L. Cotter, O. A. Hansen, Dan
 Dechatelets, Marcia Lynn Keeney, 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, David J. King, Sue Pitkin, Jerry
 Fitzsimmons, Gloria Jean Martin, Roberta J. Peelar, Craig Fields,
 Margaret Iwamoto, Dee Larson, Robert E. Doane, Jeanne B. North
 George N. Petregal, Michael B. Young, Michael A. Padlipsky, Schuyler
 Stevenson, L. Peter Deutsch, John Davidson, Thomas O'Sullivan, Sol F.
 Seroussi, Scott Bradner, Robert H. Thomas, Michael J. Ronanelli,
 Ronald M. Stoughton, A. D. (Buz) Owen, Robert L. Fink, Jeanne B.
 North, Steve D. Crocker, Thomas F. Lawrence, John W. McConnell, James
 E. (Jim) White, A. Wayne Hathaway, Richard A. Winter, Harold R. Van
 Zoeren, Alex A. McKenzie, Abhay K. Bhushan, B. Michael Wilber, Edward
 A. Feigenbaum, Robert T. Braden, James M. Pepin, John T. Melvin,
 Lynne Van Driest, Susan K. Mahon, Brenda B. Epling, Ethyl J. Abeita,
 Jane A. Bialosky, Marion C. Bedell, Kasee N. Menke
 Jim O. Calvin, Donna R. Cooper, Jeffrey B. Rubin, John F. Wakerly,
 Tom C. Rindfleisch, Leonard B. Fall, David L. Hyde, Gary Blunck, Tom
 P. Milke, Alan H. Wells, Chuck R. Pierson, Carl W. Ellison, Robert P.
 Blanc, Jay R. Walton, 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, 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, Anthony C. Hearn, Robert M.
 (Bob) Metcalfe, Bradley A. Reussow, Daniel L. Kadunce

MDK 12-DEC-73 12:16 20858

NIC USER COMPUTER SERVICES TO BE TRANSFERRED TO A NEW HOST, OFFICE-1

(J20858) 12-DEC-73 12:16; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /NLG NSAG USING DCE JCN RWW JEW JBN JAKE JHB WRF MLK MDK;
Sub-Collections: SRIARC NIC NLG NSAG USING; Clerk: MDK;
Origin: <KUDLICK>ANNOU.NLS;10, 12-DEC-73 12:04 MDK ;

Protocols Distribution Policy for Non-Network-Related Requestors

We will send this letter (and the documents listed in it) to those persons requesting information about Network Protocols, but who are not "officially" associated with the Network.

Protocols Distribution Policy for Non-Network-Related Requestors

Dear ... :

In response to your request, we have sent you the following ARPA Network Protocol documents, in separate mail:

1. NIC # 7101 Initial Connection Protocol
2. NIC # 8246 Host/Host Protocol
3. NIC # 18639 Telnet Protocol
4. NIC # 17759 File Transfer Protocol

We hope these documents will be of use to you.

Please take note that these documents may be revised from time to time by the Network developers, without notice to you. This is because these are working documents in draft form, and undergo frequent revisions as the Network itself evolves.

At the present time, other Network-related documents are not available to you, since you are not now an official Network user. The Network Information Center is, however, developing procedures that will allow other documents and updates to documents to be acquired by you. We hope to have such procedures finalized in the near future.

Sincerely,

Michael Kudlick
Network Information Center

20859 Distribution

Michael D. Kudlick, Jeanne B. North, Elizabeth J. (Jake) Feinler,
Marcia Lynn Keeney, James E. (Jim) White, Richard W. Watson,

MDK 12-DEC-73 12:23 20859

Protocols Distribution Policy for Non-Network-Related Requestors

(J20859) 12-DEC-73 12:28; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /MDK JBN JAKE MLK JEW RWW; Sub-Collections: SRI-ARC;
Clerk: MDK;
Origin: <KUDLICK>PROTO.NLS;3, 10-DEC-73 17:02 MDK ;

I MAY BE WRONG BUT...

These are my thoughts on our current situation after the meeting with Gabe on Dec. 11 on MISEs (for RADC & AFSC).

I MAY BE WRONG BUT...

"There are always areas of unknown in any operation. You start your mission and you light your lamps as you go, picking your way through the dark, making your journey from lamp to lamp and never looking back. But there are patches of dark and you skirt them, have to, because your lamps are too small to show you everything. They light only the way."

1

This is how I have been operating the past few weeks in this MIS game. It now appears that much of our attention has been directed in the wrong areas. The Sentinel documented last night that there is a shortage of toilet paper looming in the future--so maybe our proposal will be good for something after all. My feeling is that what Gabe is telling us to provide in no way corresponds to what we have offered. If a proposal is a plan to be accepted or rejected, then ours was certainly rejected.

2

There are too many dark patches for me to understand everything but it does appear that we have a completely new game in front of us now.

3

(1) provide a detailed study for an RADC Data Management System

3a

(2) decide whether to pitch the Technical Manager's Council (TMC) in the 3rd week of Jan

3b

(3) decide what and where we should go with our original proposal

3c

Let's look at these one at a time.

3c1

(1) RADC DMS

4

We must write a hard-hitting executive paper (devoid of all philosophy or knowledge) that will be our recommendations for using proven technology to supply an operational formatted file system with complete cost/time breakouts (including where the funds might come from). The system should be in operation within a year, must have good response times and costs must be limited to only the bare necessities.

4a

This framework seems to indicate that we are faced with the same constraints that governed the selection of FEMIS and we are doomed to the same ending. In any event, three alternatives strike me as being apparent (but first maybe we should find out why everyone is so dissatisfied with FEMIS).

4b

(a) Use IDS with a sprinkling of NLS being available at just the division level (for pride's sake, if nothing else). The goal of this effort becomes providing a more sophisticated filing structure than the first generation flat, sequential files that are now being used. Little development will have to

I MAY BE WRONG BUT...

be done since our prime objective is just duplicating present work and providing a service. Since this is so heavily service-oriented, it is best left to contractors as much as possible.

4b1

The biggest problems arise from the use of the H635 and its loaded system. This makes response times a serious problem and the only development work we will provide is with the Query Language. This is a capability beyond what they have now and will not be available in the year time table. ICL will have to be expanded, made more interactive, faster, given more capabilities, and hooked up to the TPE. The conclusion of this effort would be having the 3500 data on the 635 in an integrated database (a giant xstep forward but nothing to shout about from the rooftops) and a query capability will be provided. There are a lot of dark patches here but what I can see from my lamps tell me that this is what Gabe wants and all we might hope to sell (of course, I can't see why we would want to sell this either but that's another story).

4b1a

(b) Use the ARPA Network to get at another system elsewhere (at Wright-Patt, Recon Central, System 2000, etc). The enticing thing about this approach is that we should be able to get the job off our hands completely. We might help in the selection of a DMS but we don't have the experience in it to the degree necessary to implement it so we might as well let someone else do it. The Network considerations rightly belong in Patterson's Branch.

4b2

The costs for this might be higher than using IDS locally since most of the costs involved with IDS are necessary for the construction of any database system (except for work on the query language) while there will be Network costs, computer costs for the other site, etc and these may outweigh our one-shot dev costs.

4b2a

(c) Construct A MANAGER'S SYSTEM (AMS) on a dedicated, minicomputer. For about 60k we could get a 32k mini that could support up to 50 users but not concurrently. The very minimum of data would be included in the database but hopefully enough so that the PMS, CMS and Personnel could be covered. And then we could still provide MASIS or JOCAS reports.

4b3

Response times with this system should be spectacular. Filing structures are available for minis but of course they are not as sophisticated as IDS but they could handle the job. One problem will be in building a query language for the system but we face the same problem with IDS. I haven't

I MAY BE WRONG BUT...

thought too much about this but in light of our current situation, I think it bears some thought by the Center MIS group (or more rightly Center DMS group).

4b3a

(2) AFSC MIS

5

Gabe emphasized even more with this system that it must rely on operational state-of-the-art. My feeling is that our concept of an MIS is certainly not at this stage. (N.B. I had a discussion with Shosani that leads me to believe that we are even further away from this than I thought..more on that later).

5a

My recommendation: Let Gabe drop this.

5b

(3) Our proposal

6

First, I think it is time to stop referring to our proposal as an MIS (everyone knows what an MIS is, as evidenced by Gabe's insight, and we are only beating our heads against the wall). I hereby suggest a new phrase to encompass the concept we are trying to push...

An Information Science System (ISS)

6a

or AISS or maybe even drop the I completely.

6a1

This proposal is only the foundation for a long process. It might be a branch level decision on how or whether we should proceed with it. It is unrealistic to believe that we could get someone to buy off on it in its present condition or even expect us to be able to deliver it in a few years and a few bucks. If we decide to pursue it further, it might be along these lines:

6b

*research it a littler more carefully than we have had time to in getting it into a proposal stage

6b1

*begin a system analysis study to identify the exact requirements and needs it can help with and to determine the cost savings it could bring (if we can't specify where the system would save money, all anyone would do is say how nice it might be but never come up with any coins)

6b2

*pitch it only from the standpoint of a research and development effort (not an operational system that a user could have in a short while)

6b3

20860 Distribution

Roger B. Panara, Edmund J. Kennedy, Duane L. Stone, Rocco F. Luomo,
John L. McNamara, Frank J. Tomaini,

I MAY BE WRONG BUT...

(J20860) 12-DEC-73 13:44; Title: Author(s): Joe P. Cavano/JPC;
Distribution: /RBP EJK DLS RFI JLM FJT; Sub-Collections: RAD3; Clerk:
JPC;
Origin: <CAVANO>GABEMEET.NLS;1, 12-DEC-73 13:30 JPC ;

Packaging NLS for the NIC

PACKAGING NLS FOR THE NIC

INTRODUCTION

NLS can be delivered to users outside ARC:

- 1) in either toto, or
- 2) packaged in small modules for customer-oriented use, or
- 3) in any combination thereof.

ARC is taking the first approach with the NLS Utility. As I understand it, we are essentially going to make available to all Utility users the full range of NLS services available at ARC.

In accordance with the knowledge workshop philosophy so often expounded by Doug, Dick and Jim, we are attempting to augment the Utility users in an integrated fashion rather than concentrate on a few specific functions first. Although this approach to technology transfer has some shortcomings (I discuss them in another note), it is needed in our present situation as it offers unique opportunities for ARC.

The main one being that it will allow us to obtain real feedback from full scale applications of our technology in a wider variety of situations and environments. However, no matter what reasons support the choices that were made, it is very doubtful that they will enhance our goals if the applications are not oriented:

- 1) towards applied research projects in information handling procedures, or
- 2) towards strictly exploratory applications for testing and feedback purposes.

I do not believe that the NLS Utility should be geared towards fully integrated end-use applications at all. It would be a mistake because we are simply not yet ready for such endeavors and all the development efforts that are still so badly necessary to realize our most fundamental goals would certainly suffer from such a reorientation.

Thus, the launching of the Utility, although a necessary step in ARC's development, is fraught with danger and the question immediately arises how can we protect ourselves from the potentially difficult that could arise from the Utility venture. I believe that our safeguard in this respect will come from the badly battered NIC. It might allow us to develop an alternative delivery approach for NLS.

Let us consider the NIC problem. Four NIC users will be allowed

Packaging NLS for the NIC

access to the new Utility at all times, for 16 hours per day, and 6 days per week. This represents a significant resource that must be allocated in such a fashion that the whole NIC community benefits from it in a manner that is consistent with the NIC mission and goals.

2g

This excludes providing free access to the whole range of NLS services for every NIC user. Therefore, some basic partitioning scheme must be considered for these services and we must figure out how this should be done. This problem should be most welcome in ARC as it will present us with a golden opportunity.

2h

A PACKAGING SCHEME FOR THE NLS SERVICES

3

If, within the NIC quota, we allow free access to all the Utility services, then most likely a few NIC users will rapidly preempt all the available resources for NON-NIC usage and practically prevent all other potential users from accessing the system under that quota for much more legitimate NIC usage.

3a

Therefore, a time limit on NIC logins will probably have to be set. It could operate like an extended elog option, that could be called "NICLOG" for instance. It could allocate, say, 15 minutes to each user. This would provide the NIC, under its contemplated allocation quota, with a minimum of 16 "service modules" per hour or 256 service modules per day if all the resources are fully utilized.

3b

If this is not enough, a time limit of 10 minutes could be set. This would amount to 384 modules per day.

3b1

Furthermore, to avoid multiple successive logins by the same person, a rule could be enforced automatically by the system that would prohibit another login within a certain time period, say one hour, after each service.

3b2

Under these conditions, the NIC could begin to serve quite effectively its potentially very large user population by offering a limited series of online services that could be delivered in predetermined modules in a predictable fashion. This service system could have the following characteristics:

3c

1) It could be designed to be stable and dependable. Its stochastic behavior could be determined and, since a minimal control could be exercised over the service times and the number of channels of the system, a reasonably reliable service mechanism could be made available to all bona fide NIC users.

3c1

2) A queueing system could be instituted that could minimize

Packaging NLS for the NIC

uncertainty of access. Whenever all the NIC ports are busy a waiting system could be put in operation that would compute the expected waiting times and communicate them to the users. Should a user decide that he wants to wait, the system would keep him informed of his position in the queue at regular intervals until he gets his time allocation. This would introduce more predictability in the service system and reduce accordingly the unpleasantness of uncertainty.

3c2

3) One of the four NIC ports could be dedicated to a reservation system whereby prescheduled time periods are allocated for specific uses such as teleconferencing, or linking, or whatever other services NIC wishes to offer. Reservations could be made by the NIC on a predetermined basis via messages through the three other communication channels or simply by telephone.

3c3

4) A priority system could be set up that would allow, under prearranged conditions, priority access to the service modules. Both preemptive priority and queueing priority should be considered and the system should also be flexible enough to allow the handling of occasional justified priority requests.

3c4

Under such a partitioning scheme the NIC problem would then be reduced to choosing among all the possible services that could be packaged in such modules those that would be the most valuable for the NIC population at large. For instance, a user could be allowed

3d

- to query the NIC data bases,
- to send or receive messages via SNDMSG,
- to compose and edit short journal items with NLS,
- to distribute these via a NIC Journal System,
- to read or printout journal mail,
- to use the NIC journal catalog for subsequent retrieval,
- and so on.

3d1

Obviously, the issue of what services should be offered is strictly a NIC problem. It suffices to point out here that these services should be modularized enough to stand alone and allow easy online training and guidance for all potential users.

3e

The main point of this whole discussion is to emphasize that a framework could be set for special delivery of the NLS capabilities for specific customer-oriented needs.

3f

CONCLUSIONS

4

By adopting a modular delivery approach via the NIC, ARC would

Packaging NLS for the NIC

gain real experience with specific, customer-oriented needs and learn how to tailor its services to meet their requirements. This would present several advantages.

4a

First, it would provide ARC with an alternative for its present delivery approach through the NLS Utility. If that approach fails, and the NIC modular approach proves successful and manageable, ARC could always convert some global NLS delivery ports of the Utility into an equal number of more restricted and modular delivery ports.

4b

Second, these modular NIC ports could offer a viable alternative for the widely used SNDMSG system on the ARPANET, or at least offer some complementary capabilities for special usage. A streamlined version of NLS could thus become the basic vehicle of an ARPANET message system and the NIC could possibly become a message center offering cataloging and retrieval facilities.

4c

Finally, in the long run, the NIC could become one of the major outlets for ARC's development products and provide ARC with a means for gradual release of new features under easily controlled conditions.

4d

20861 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
James H. Bair, A. Jim Blum, Meredith(Reddy) E. Dively, Jeanne M.
Leavitt, 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, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, 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, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

Packaging NLS for the NIC

(J20861) 12-DEC-73 15:06; Title: Author(s): Paul Rech/PR;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: PR;
Origin: <RECH>PACK.NLS;14, 12-DEC-73 15:01 PR ;

The National Software Works

This is a letter to the designers of the National Software Works (NSW) commenting on some aspects of their preliminary design.

The National Software Works

To:

Robert Balzer
T.E. Cheatham
Steven Crocker
J.C.R. Licklider
John Perry
Stephen Warshall

1

From:

Charles H. Irby
Donald C. (Smokey) Wallace

2

Gentlemen:

3

We have just read the initial design document for the National Software Works and are really excited about the prospect of something we have been thinking about for a long time actually happening. By "we" we mean Charles and Smokey. Of course we have told our management about writing this letter but we certainly do not want you to be confused about whether the opinions expressed are "official". In fact, if at all possible, we would like to duck the usual political implications associated with the design and simply address the technical issues. Many of us here at the Augmentation Research Center(ARC) have been pushing for automation of the program development process and have made a start for our own usage. Quite frankly the phraseology of your design sounds much like what we at ARC have been saying for a long time.

4

We should point out that if the NSW is a failure, an absolutely necessary step in the evolution of software technology will be set back many years. Consequently, we are highly motivated to see that the NSW is a great success. The basic question we have is "how can we help"?

4a

CRITERIA FOR A SUCCESSFUL NSW

5

The Production Programmers Position

5a

We claim the production programmer's traditionally conservative position with respect to automating the production of programs is a valid one, backed by years of experience with fads and gimmicks and systems that did not really work. A primary experience has been one of extra work and effort to make up for the deficiencies of the latest super programming system or tool.

5a1

The bugs that we in the R & D community tolerate as a matter of course have catastrophic effects in the production environment. Lost data, programs, unreliable results and erroneous messages

The National Software Works

or diagnostics are major impediments in the production environment. The "get the job done on time" oriented programmer spends the major portion of his time getting around the "features" of the system. A new system or manual of programming practices that is obviously neat to the R & D community will not entice the now firmly entrenched production programmer to abandon his presently reliable method or surrender his boxes of cards.

5a2

Phased Project

5b

In large part, the success of the NSW will depend upon a gradually phased project. The NSW's initial goals should be modest ones with the most effort and energy being expended to ensure reliability and consistency. Consequently, we suggest a "pilot project".

5b1

Pilot Project

5c

Rather than attempting to automate the entire community in one giant step, we would suggest that a highly motivated pilot group be selected. The size of the selected group is critical. Care should be taken that the selected group's project is not in the critical path of some larger project as this would put unreasonable pressures on everyone. It should be recognized that the net effect on the selected group will be a major perturbation and that current schedules and plans will no longer be valid. It should not be anticipated that there will be any initial improvements in performance because of startup and training difficulties. The desired improvements will only be attained when the group reestablishes equilibrium. Special attention should be given to documentation and training. The primary purpose of the pilot project approach is that it would allow the developers to interact with the end user in an effort to remove operational difficulties before making it available to more vulnerable groups.

5c1

Programming Task Force to Build the NSW

5d

We understand that it is a hard pill for us in the computer business to swallow, but if there is one thing we do know its that large programming groups are virtually impossible to manage. If ARPA wishes to solve this long-standing problem in building the NSW, we suggest they do it as a separate effort and not gamble the success of the NSW on an in-progress solution. We therefore suggest that the model for the development of the TENEX time sharing system be used. Specifically, we propose that a small (absolute max = 10) programming task force be setup to do the actual interface

The National Software Works

programming and integration. The flavor of this task force should cross the many system boundaries of the proposed components of the NSW. The members of this task force need to be experienced members of smoothly working programming projects with emphasis on collaborative relationships between the members. Prima Donnas are great, but not for the NSW.

5d1

The Display Based Editor

5e

Although conceptually the screen based editor described is very straightforward, there are considerable difficulties in implementing such an editor so that it satisfies the criteria of being the basis for a single integrated facility. We realize that although most editors, or editor philosophies, have much of the nature of a religion (and, of course, we have our brand) but, we have had years of experience in this area and feel that we understand many of the issues fairly well. We hope that we can be of help here.

5e1

THE STATE OF THE ARPANET COMMUNITY AND ITS IMPACT ON NSW

6

The Framework

6a

We are rather confused about the apparent research nature of the proposed Framework. We were under the impression that the initial NSW would be put together out of existing system components and these two components clearly do not exist. We recognize that there needs to be some new stuff to pull all the components together but the Framework sounds rather ambitious for the initial system. The alluded-to slight extension of the procedure call mechanism is conceptually nice, but we see it as a major modification to existing systems and probably will not set well with the developers of those systems. Particularly if they have not had a hand in it's design and development. The Executive sounds like the Distributed Operating System work now in its early stages of research and development at BBN. It seems a bit premature to be building the NSW (an application system) with this technology.

6a1

The Nature Of Existing Arpanet System Components

6b

Most of the existing systems in the ARPANET have been designed as tools for specific research oriented tasks (with the marked exception of the Datacomputer), and have never been sufficiently concerned with such things as execution speed, program size, resource accounting, or networking. The linking together of many slow, expensive modules will hardly suffice for the NSW. The ARPANET will, of necessity, introduce bottlenecks to the program production process and how those

The National Software Works

bottlenecks impact the user must be well thought out. The whole nature of a responsive interactive network-based system such as the NSW is not very well understood.

6b1

We are anticipating the evolution of NLS into just such a system since the advantages of networking are too large to ignore. Our initial thinking and experimentation suggest that the highly interactive portions of the system must be local to the user. We have had considerable experience with dissatisfied users complaining about unresponsive remote display use of our system and, this has resulted in many unfruitful experiments in an attempt to solve a fundamental networking problem.

6b2

Protocols

6c

We hope you realize that the NSW will precipitate one of the great protocol battles in the history of the ARPANET. Some of the issues have already been addressed by Bob Thomas at BBN but in his own words he has just scratched the surface. Bob has accomplished much by building his own private protocols and has ducked most of the major network issues such as machine independence and accounting. He now faces the almost insurmountable tasks of getting his protocols or equivalents accepted as standards.

6c1

Tight Schedule

6d

In your design you point out the traditional fault of over-estimating ones' ability to produce running systems, and then proceed to commit the same sin. Our experience tells us that it takes considerably longer to get a system smoothly running in an operational environment than it takes to get one initially running, especially if that system is going to be used for "real" work.

6d1

If you got this far we would like to thank you for taking the time to read our outpourings. We are both quite committed to the programming profession and are continually dismayed by the lack of fallout from projects in the R & D community. The NSW has the promise of being a vehicle for such fallout but, we cannot stress enough the idea of "passing" the fruits of our labor to our fellow programmers in an ACCEPTABLE form rather than laying another hastily conceived, unintegrated and incomplete system on them.

Charles and Smokey

6e

20862 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
James H. Bair, A. Jim Blum, Meredith (Reddy) E. Dively, Jeanne M.
Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marc 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, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Douglas C.
Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper,
Charles H. Irby, Mil E. Jernigan, Harvey G. Lahtaan, Jeanne B. North,
James C. Norton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

The National Software Works

(J20862) 12-DEC-73 15:47; Title: Author(s): Donald C. (Snokey)
Wallace, Charles H. Irby/DCW CHI; Distribution: /SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: DCW;
Origin: <WALLACE>NSW.NLS;16, 12-DEC-73 11:51 DCW ;

Snokey will play Santa

The ARC Xmas party has been moved to Rod Bondurant's sprawling mansion at 425 Embarcadero Road in Palo Alto. The time and date (3PM on Friday the 14) are still the same.

1

20863 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
James H. Bair, A. Jim Blum, Meredith(Reddy) E. Dively, Jeanne M.
Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Mark Alexander Beach,
Judy D. Cooke, Marcia Lynn Keeney, Carol B. Gailbault, Susan R. Lee,
Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake)
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Douglas C.
Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper,
Charles H. Irby, Mil E. Jernigan, Harvey G. Lentman, Jeanne B. North,
James C. Norton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

Smokey will play Santa

(J20863) 12-DEC-73 15:51; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: MLK;

Re Append command

Append command:

Could we have some noise word to indicate what is wanted when the prompt (in DNLS) T:/B:/[A] appears (the second time) expecting an LSEL of the stuff to insert between the appendees.

At one point in a scenario, when the prompt is B:/[A:, the feedback line shows "Append Statement at to"; then you give your bug, then the prompt changes to T:/B:/[A] but the feedback line still holds at "Append Statement at to". This could be made more clear. At this point I understood that typing <control-n> would be available as an alternative to SP BC. If this is still what's planned (it's what I've documented), it would be nice to have a noise word like:

"insert between (type <control-n> for null typein)"

or something shorter if necessary, appear when ready for the LSEL.

Thanks, Jeanne B.

1

20864 Distribution
New Nls,

Re Append command

(J20864) 12-DEC-73 16:23; Title: Author(s): Jaime M. Beck/JMB;
Distribution: /NEWNLS; Sub-Collections: SRI-ARC NEWNLS; Clerk: JMB;

Rom Banin

I would like to enter Rom Banin in the identfile. Could you tell me his middle initial and phone number. Also, Jake Feialer here has mentioned that Rom is the Liaison at SCI; is this true or are you still acting as liaison -- we have been sending all documentation to you. Let me know if there have been any changes. Thank you.
Marcia Keeney 326-6200 ext 3007 or MLK through the journal

1

20865 Distribution
Gene Lechner,

Ron Banin

(J20865) 12-DEC-73 16:32; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /EL; Sub-Collections: SRI-ARC; Clerk: MLK;

Visitlog, Dec 7: Annenberg USC

For your action.

Visitlog, Dec 7: Annenberg USC

Please read and make any changes/additions in (bair,visit,) before I submit it to the Journal. (The protections are set to read/write all.) Thank you.

1

20866 Distribution

James C. Norton, Richard W. Watson, Douglas C. Egelbart, Paul Rech,

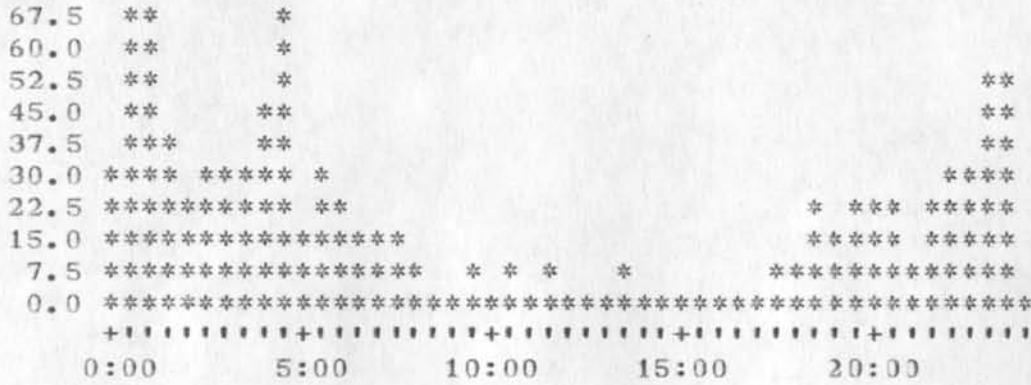
Visitlog, Dec 7: Annenberg USC

(J20866) 12-DEC-73 17:56; Title: Author(s): James H. Bair/JHB ;
Distribution: /JCN RWW DCE PR ; Sub-Collections: SRI-ARC ; Clerk:
JHB ;

Superwatch Average Graphs for Week of 12/3/73

TIME PLOT OF AVERAGE IDLE TIME FOR WEEK OF 12/3/73
x axis labeled in units of hr:min, xunit = 30 minutes

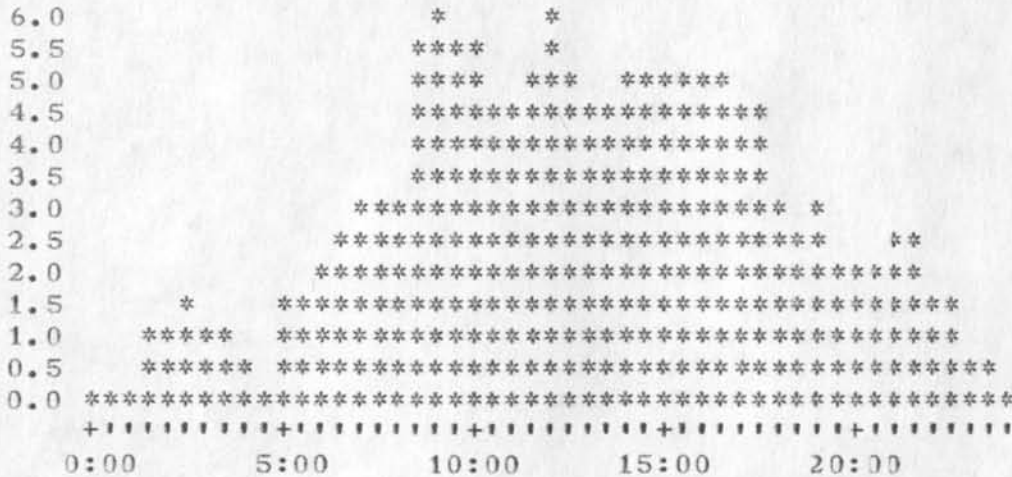
1



1a

TIME PLOT OF AVERAGE NUMBER OF GO JOBS FOR WEEK OF 12/3/73
x axis labeled in units of hr:min, xunit = 30 minutes

2



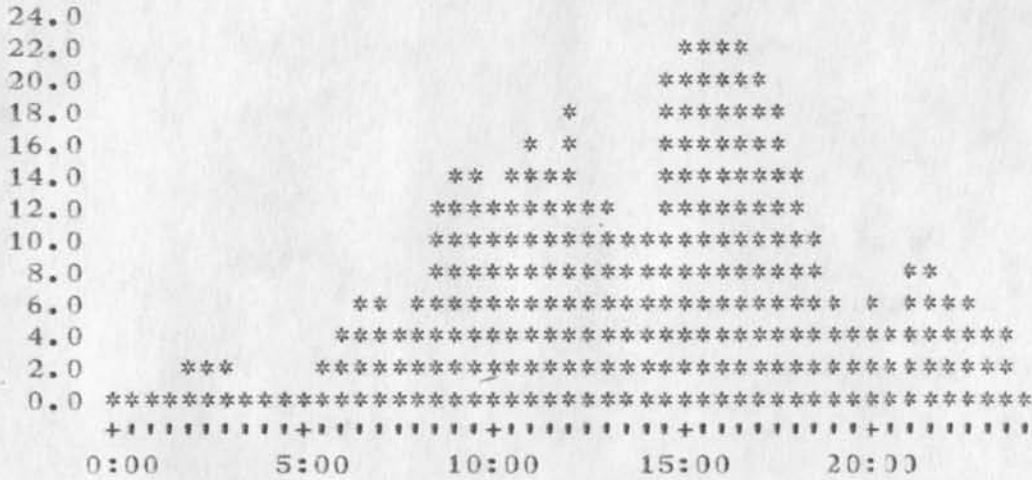
2a

Superwatch Average Graphs for Week of 12/3/73

TIME PLOT OF AVERAGE PER CENT OF SYSTEM USED IN DNLS FOR WEEK OF 12/3/73

x axis labeled in units of hr:min, xunit = 30 minutes

3

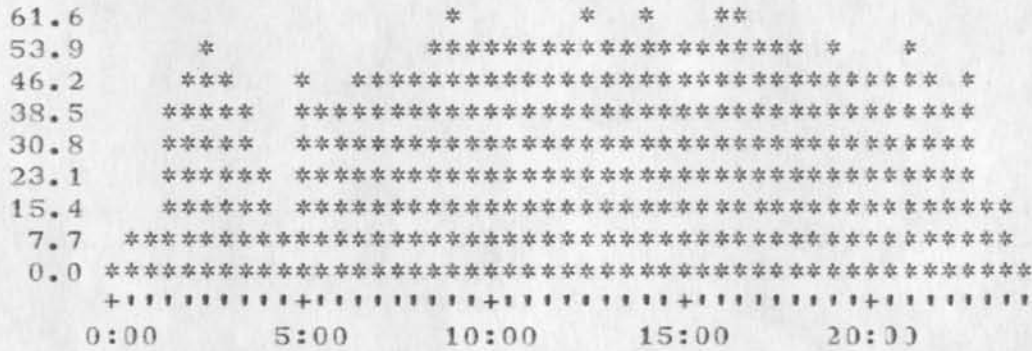


3a

TIME PLOT OF AVERAGE PER CENT OF CPU TIME CHARGED TO USER ACCOUNTS FOR WEEK OF 12/3/73

x axis labeled in units of hr:min, xunit = 30 minutes

4



4a

20867 Distribution

James C. Norton, Richard W. Watson, Douglas C. Engelbart, Paul Rech,
Jeffrey C. Peters, Dirk H. Van Nouhuys, Elizabeth J. (Jake) Feinler,
Kirk E. Kelley, Duane L. Stone, Beauregard A. Hardeman,

Superwatch Average Graphs for Week of 12/3/73

(J20867) 12-DEC-73 17:15; Title: Author(s): Susan R. Lee/SRL;
Distribution: /JCN RWW DCE PR JCP DVN JAKE KIRK DLS BAH;
Sub-Collections: SRI-ARC; Clerk: SRL;
Origin: <LEE>WEEK12/3GRAPHS.NLS;2, 12-DEC-73 17:13 SRL ;

Re Jump to Name--SUGGESTIONS

(1)

In DNLS, Change prompt after Jump to Name from CA:/C: to B:/C: because your choice at that point is really between a Bug (which elsewhere is prompted B:) or one of the command-words Only, First, Next.

Also, I think the name read should be fed back immediately after you bug it (this is re choice Bug after Name)

(2) Jump to Name Only should be changed to Jump to Name Any if that's what it does when that name exists more than once in the file

--Jeanne B.

1

20858 Distribution
New Nls,

JMB 12-DEC-73 18:03 20868

Re Jump to Name--SUGGESTIONS

(J20868) 12-DEC-73 18:03; Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /NEWNLS; Sub-Collections: SRI-ARC NEWNLS; Clerk: JMB;

Nls Class and Office-1

Jim -- What is the status of the NMC's NLS class? I heard rumors of our not rating one, and want to check with you before bitching.

Also, what are the plans regarding NMC use of OFFICE-1?

Perhaps we should talk. I will be in in the afternoons, but tied up portions of thurs and fri. let me know if you want me to call you.

Tnx. Dave.

1

20869 Distribution
James C. Norton,

Nls Class and Office-1

(J20869) 12-DEC-73 19:12; Title: Author(s): David H. Crocker/DHC;
Distribution: /JCN; Sub-Collections: NIC; Clerk: DHC;

Journal Documents Received and READ to early Nov. 73

For personal use, Journalized to release disk space.

Journal Documents Received and READ to early Nov. 73

Journal Documents Received and Read: 12-DEC-73 Journalized 1

JCN 24-OCT-73 17:33 19848

Reply to (19825,): Append Command Needs

Message: Robert: About the append ideas-- you might like to try the user-program append with the goto programs get append and then goto programs execute append connamd. This asks you what group of statements you want appended and what text inserted between them as they go together. Is this what you want?? lso, there is a smarter input sequential user program called inseqh or suca. I think it does som level setting stuff according to the number of consecutive CR's....might help. I assume you are using the INMES stuff on sndmsg..it's a user program too...I guess we discussed it. Let me know if this helps you ok? Jim

2

JCN 23-OCT-73 13:00 19831

Note to Connie McLindon, ARPA re: Workshop Architect Role

Location: (LJOURNAL, 19831, 1:w)

3

DVN 22-OCT-73 10:12 19816

Documentation Review

Location: (LJOURNAL, 19816, 1:w)

4

DCE 17-OCT-73 17:35 19746

NP for SNDMSG, User Program INMES, and round-trip conversion between NLS and sequential files

Location: (LJOURNAL, 19746, 1:w)

5

Comments: Time for more dialogue re improved facilities for NLS support of composng, sending, and managing SNDMSG traffic?

5a

KIRK 16-OCT-73 17:09 19731

Decisions in the help database for Oct 16

Location: (LJOURNAL, 19731, 1:w)

6

DVN 9-OCT-73 15:38 19587

Miscellaneous Notes on HELP System Design Meetins 10/4 and 10/9

Location: (KJOURNAL, 19587, 1:w)

7

DVN 5-OCT-73 17:21 19540

TNLS Outline Citation

Message: <IJOURNAL>17030.NLS;1, 4-JUN-73 "Outline for June 4-8 TNLS Course"; Author(s): Dirk H. Van Nouhuys

8

Journal Documents Received and READ to early Nov. 73

- Comments: This is the most recent outline of a TNLS course 8a
- (DVN) 26-SEP-73 20:28 19331 When We Might Be Able to Give a TNLS 9
 (JJOURNAL, 19331, 1:w) Class At UCLA.
- Comments: A reply to 19315 9a
- (DVN) 17-SEP-73 09:27 19108 Did Changing Control Characters Help? 10
- Message: We haven't much experience with people working in NLS through IBM equipment, but obviously it will happen more in the future. In that line I'd be glad to hear if the information I sent you about changing control characters helped with the 2741-Tycoms?
- *****Note: fyi***** 10a
- (DVN) 13-SEP-73 13:30 19062 An Introduction to the Current Status 11
 (JJOURNAL, 19062, 1:w) of the Help Data Base
- (DVN) 24-AUG-73 10:44 18642 Daughter of Failure to Log into ARC 12
 (MJOURNAL, 18642, 1:w)
- JI 4-NOV-73 22:29 20042
 Output Processor Cue Card
 Message: This is a mini-suggestion for the construct of an Output Processor Cue card like the NLS cue card that was distributed several months ago. In using the Output Processor, I find it a great annoyance and real handicap to always "thumb" through the manual to obtain the appropriate directives. I feel sure that many people react the same way and would be very appreciative to have such a cue card constructed and made available. Would invite your consideration of this request. The few people I have mentioned it to would also like to have copies if they were available. Thanks.....Jean 13
- FJT 7-NOV-73 08:09 20081
 Additional Info on Tickler
 Location: (LJOURNAL, 20081, 1:w) 14
- DVN 7-NOV-73 20:34 20094
 Dean Meyer Will Make an Output Processor Cue Card
 Message: Dean Meyer has agreed to do an output processor cue card. He clearly seems the right person. He will be glad to listen to suggestions about format and directives to be listed. When he has a draft we will bring it to your attention. 15
- MEJ JI 4-NOV-73 10:58 20037

Journal Documents Received and READ to early Nov. 73

Suggestion for Initial File Journal Item Indexing
 Location: (LJOURNAL, 20037, 1:w)

16

FJT 5-NOV-73 05:33 20043
 Tickler - 5 - 16 November
 Location: (LJOURNAL, 20043, 1:w)

17

AAM 5-NOV-73 08:39 20046
 Scheduled Software Maintenance
 Message: This is a reminder that Network Software Maintenance is scheduled between the hours of 0700 and 0900 (Eastern Time) on Tuesday, 6 November 1973. Although software releases are checked out as much as possible in the BBN test cell, there are sometimes problems of scale which are not detected until after a release; hence there is a small but finite possibility that the software will be troublesome for a few hours after the scheduled release.
 Sincerely,
 Alex McKenzie (for the Network Control Center)

18

KIRK 5-NOV-73 16:42 20055
 LEVEL-ADJUST, a painful option.
 Location: (LJOURNAL, 20055, 1:w)

19

Comments: The definition for LEVEL-ADJUST in the new command language that I proposed in 20024 was as unclear as the original. This document contains what I meant to say. For a current list of observations, questions, and desired changes discovered while using the new command parser, see <userguides,changes,1:wym>.

19a

KIRK 2-NOV-73 17:47 20024
 Request for changing the definition of LEVEL-ADJUST
 Location: (LJOURNAL, 20024, 1:w)

20

FJT 1-NOV-73 06:06 19989
 Tickler for 29 Oct - 9 Nov
 Location: (LJOURNAL, 19989, 1:w)

21

TFL 31-OCT-73 07:40 19975
 MESSAGE TO RADK AKW PRINTER USERS-31 OCT '73
 Location: (LJOURNAL, 19975, 1:w)

22

Journal Documents Received and READ to early Nov. 73

TFL 31-OCT-73 12:39 19978
 AKW PRINTER MESSAGE-AN UPDATE
 Location: (LJOURNAL, 19978, 1:w)

23

DVN 12-OCT-73 17:48 19640
 DRAFT Primer for Revised Command Language
 Location: (LJOURNAL, 19640, 1:w)
 *****Note: fyi*****

24

NDM 29-OCT-73 16:23 19907
 Developing Insert Message file User Program
 Message: Ken: I have changed the user program INMES as we discussed.
 It now always takes the login directory message.txt file, it includes
 the time received, and it handles messages without titles properly.
 Try it and let me know what you think. We can then discuss the
 addition of a check for time of last read.
 *****Note: fyi*****

25

Comments: See (19746,) for possible directions in this area.

25a

DVN 21-OCT-73 17:04 19795
 Alternative DRAFT of ARC Primer with Examples Spread
 Location: (LJOURNAL, 19795, 1:w)
 *****Note: fFor Your Information*****

26

DVN 15-OCT-73 19:57 19284
 R&D Contract Status Report for July, Project 2697
 Location: (LJOURNAL, 19284, 1:w)

27

TFL 11-OCT-73 08:07 19604
 AHI PRINTER-A MESSAGE TO USERS
 Location: (LJOURNAL, 19604, 1:w)

28

DLS 25-OCT-73 05:52 19851
 RADC-MIS..TR
 Message: Hi Jim,
 Things have been slow recently on the RADC MIS proposal. System has
 been unavailable 2 days this week. Also, there are the continual
 diversions..5550 writeups, briefings etc. Roger, Joe and Dave all
 have files in their own directory with similar names, where they are
 doing their own thing. Also see (stone,proposal,) for beginning
 attack on the proposal itself. I wouldn't plan too heavily on using
 the RADC machine, until we find out for sure that it will be on the

Journal Documents Received and READ to early Nov. 73

ARPANET. Then we will have to fac all the political problems of making it a Host. Since we don't have too much money, maybe we could swap some computer time?? I will enquire into the TR and see if it can't be moved..The delay is approaching the rediculous

29

Comments: Is you ident listed as JMB in the user statistics??

29a

FJT 25-OCT-73 06:31 19852
tickler for week 22 Oct - 2 Nov
Location: (LJOURNAL, 19852, 1:w)

30

DVN 17-OCT-73 21:55 19749
Next Week a Mysterious File Will Appear In Your Directory if You Use DNLS
Location: (LJOURNAL, 19749, 1:w)

31

BAH 16-OCT-73 10:52 19725
OCT 7-13. 1973: A WEEK IN REVIEW
Location: (LJOURNAL, 19725, 1:w)

32

Comments: Believe it or not, there is still a WAR (weekly analysis report) Apologies for the gap, but attribute it to AUGMENTATION. In the upcoming week I plan to produce the backlog of reports beginning with the most recent first. For the RADC people, only the most recent report will have an account of disc usage.
-bah

32a

EJK 11-OCT-73 13:25 19616
AKW System Inputting
Message: Mrs. Cafarelli has progressed to the point where she can input the system with reasonable proficiency. This I define as being better than many of us males. You may have noticed that yesterday and today I was logged into the system quite a bit. Most of that was really her. She has been inputting quite a few things, some of which wil appear in the tickler file as links. For example, when the tickler shows that the R & T Selection of the monta is due, moving to the link in that statement will give you the latest instructions on what is appropriate for consideration and the format in which it should be submitted. Anne, however, is not my personal inputter she is available for any sizeable inputting jobs you may have. Please contact me if you have an inputting job, or if you have any questions.

33

FJT 9-OCT-73 07:21 19572

Journal Documents Received and READ to early Nov. 73

Additional info for Tickler
 Location: (KJOURNAL, 19572, 1:w)

34

FJT 9-OCT-73 05:54 19565
 Tickler - 8 - 19 Oct 73
 Location: (KJOURNAL, 19565, 1:w)

35

NDM 8-OCT-73 15:17 19552

Message: Jim: Welcome Got yor message. I know of no simple way to move one line over to the left margin. The simplest way that I can think of to do it is to move the left margin over, then back again. For instance, if you wished a line to begin at position zero, and if the statement is at level two and LMBase is at zero, you could put the directive in the previous line, then reset LM to its previous value in the current line. Give me a call anytime for more help on this or anything. See you soon. Dean

36

(JMB) 21-SEP-73 13:50 19252 More on SPACE (HJOURNAL,19252)

37

(DVN) 20-SEP-73 17:01 19166 Followup on Space War

38

Message: <jjournal,19147> was delayed in delivery until this afternoon, so don't feel obliged to reply, if you plan to reply, until Monday.

38a

(DVN) 19-SEP-73 11:26 19147 Blanks or Brackets
 (JJOURNAL, 19147, 1:w)

39

(AAM) 24-SEP-73 06:20 19262 Scheduled Software Release

40

Message: This is a reminder that Network Software Maintenance is scheduled between the hours of 0700 and 0900 (Eastern Time) on Tuesday, 25 September 1973. Although software releases are checked out as much as possible in the BBN test cell, there are sometimes problems of scale which are not detected until after a release; hence there is a small but finite possibility that the software will be troublesome for a few hours after the scheduled release.

Sincerely,
 Alex McKenzie (for the Network Control Center)

40a

DCE 4-OCT-73 16:21 19519
 Visit Log: 4 Oct 73, Nat Rochester and Elmer Sharp, IBM
 Location: (KJOURNAL, 19519, 1:w)

41

Journal Documents Received and READ to early Nov. 73

Comments: Potential Utility subscriber; interested in any fee-based training courses we set up; borrowed a keyset; could become a collaborator. 41a

DLS 5-OCT-73 07:06 19521
More or Renamed Directories for RADC
Location: (KJOURNAL, 19521, 1:w) 42

(DCE) 30-MAR-73 7:14 15398 Inviting RADC AHI guys to participate
(MJOURNAL, 15398, 1:w) in community-development dialogue 43

(DLS) 23-APR-73 06:09 16050 Comments on current and planned journal
(MJOURNAL, 16050, 1:w) service 44

Comments: Dirk, I'm not sure who this should go to--will leave it up to you to disseminate further. Also, yes we would like a monthly index for RADC submitted/received journal items; online would be fine if a notice could be placed in each RADC user's initials file. 44a

(DLS) 26-APR-73 15:41 16203 Text Editor Comparisons--Request for
(MJOURNAL, 16203, 1:w) Help 45

(JCN) 26-APR-73 16:50 16182 Letter to Dr. Leon Richman, Syracuse
(MJOURNAL, 16182, 1:w) Univ. 46

(***) 9-JUL-73 08:58 17698 CONTENT ANALYZER PRIMER
(KJOURNAL, 17698, 1:w)
[From: @SRI-ARC] 47

Comments: Hard copy is available from Marcia Keeney. The current NLS version can always be found through <userguides>arclocator. 47a

(***) 11-JUL-73 11:55 17737 NLS CALCULATOR IS UP
[From: @SRI-ARC] 48

Message: The NLS Calculator is now up and running. It adds calculation abilities to SRI-ARC's NLS information system. Documentation is available as follows:

On-Line:

TNLS (userguides,calculator-tnls,1)

DNLS (userguides,calculator-dnls,1)

Off-Line: copies available from Marcia Keeney

TNLS (17419,)

DNLS (17418,) 48a

TALK to and Victor...: (DSK) 27-JUL-73 11:44 18043 Your Recent
Imlac Difficulties 48b

Journal Documents Received and READ to early Nov. 73

Message: I have responsibility for handling NLS recreate display problems. (I have nothing at all to do with "Inlac programs".) I have seen your note (17632,) and do not know (having talked to Elizabeth Michael) if that represents your current state. Let me know if you have reproducible legitimate NLS-type problems. I can handle any which are recreatable here...Diane Kaye

48b1

(GAB) 7-SEP-73 08:27 18846 Interview results for NLS Users
(JJOURNAL, 18846, 1:w)

48c

Comments: Journaling to free file space

48c1

(DLS) 30-AUG-73 14:08 18726 AKW Group Meeting..Status and Problems
(MJOURNAL, 18726, 1:w) of Project

48d

(JPC) 27-JUN-73 07:48 17489 Some Thoughts on the Forms System
(JJOURNAL, 17489, 1:w)

48e

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

48f

Comments: This took me about 1 hour and 40 minutes from creation of the file to submission to the journal, with side trips to the candy machine, others directory and the journal ident system. It would have taken me a couple of days minimum to get out the same note using the secretary and MTSTs. How much of a cost savings is this????

48g

(DVN) 9-MAY-73 20:22 16344 A Start at Planning NLS Tests
(IJOURNAL, 16344, 1:w)

48h

(DVN) 9-MAY-73 20:50 16346 A Start at NLS Tests
(IJOURNAL, 16346, 1:w)

48i

(DVN) 12-SEP-73 08:03 18995 I'd Like To Hear About How Your TNLS
Class Went

48j

Message: As I guess you learned, they changed the allocation of documentation unbeknownst to me just when your class began. Sorry. In general how did it go? I'd be glad if you sent us some time a little journal item to add to our fund of teaching lore. DCE is now teaching a clas of 30 people in England...the last time I heard they were getting about 2 characters per second across, but I think that's fixed for the class.

*****Note: fyi*****

48j1

(DVN) 10-SEP-73 22:21 18980 People's Computer Center Meeting on
(JJOURNAL, 18980, 1:w) Computer Aided Instruction This
Thursday in Menlo Park

48k

Journal Documents Received and READ to early Nov. 73

(DLS) 21-MAY-73 14:36 16711 response to Draft Training Design Doc
(IJOURNAL, 16711, 1:w) (16639,) 48l

(DLS) 12-MAY-73 08:18 16379 IS Reorg..Impact on AKW Program
(IJOURNAL, 16379, 1:w) 48m

Comments: These are my personal reactions to the reorganization of
the division. I would be interested in hearing your comments. 48ml

(DVN) 5-JUL-73 08:43 17640 Note to Jim Bair about Who Can Help
with the Imlac 48n

Message: I put a copy of your Imlac problems (journal,17632,) on
the desk of Ken Victor (ekv). He is the guy who can best solve it.
If things don't get better in a reasonable time, let me know. 48nl

(RHT2) 17-JUL-73 14:56 17849 SOFTWARE RELIABILITY PAPER 48o

Message: I need a paper on software reliability to give to the
group at woods hole. 48ol

(EJK) 19-JUL-73 15:09 17934 help
(LJOURNAL, 17934, 1:w) 48p

(DLS) 20-AUG-73 12:02 18510 SOFTWARE SCIENCES TECHNOLOGY TPO-11
(MJOURNAL, 18510, 1:w) 48q

(JEW) 9-AUG-73 13:55 18338 Ident Confusion Reported by BBN-TENEX
(MJOURNAL, 18338, 1:w) 48r

(DVN) 2-AUG-73 15:50 18179 Trip Report: July 16th Visit to RADC
(LJOURNAL, 18179, 1:w) 48s

(JMB) 2-AUG-73 09:46 18167 TNLS Device--Terminette--Special
(LJOURNAL, 18167, 1:w) characters & keys 48t

Comments: Jim, would you please check the set of characters on
your Terminette (correct spelling?) device against those listed in
this table and let me know what they are? This is for TNLS
documentation revision as per our phone conversation--1 Aug 73.
Thank you for your time. --Jeanne Beck 48t1

(DVN) 16-AUG-73 16:17 18480 TNLS Availability, Courses in Southern
(MJOURNAL, 18480, 1:w) Calif. 48u

(DLS) 10-AUG-73 06:08 18348 RADC USER STATISTICS--JAN 73-JUL 73
(MJOURNAL, 18348, 1:w) 48v

Journal Documents Received and READ to early Nov. 73

(NJN) 27-AUG-73 08:30 18674 Step-daughter maybe? response to
(18642,) --EXPLANATION-- 48w

Message: Dirk-- 48w1

The following is BBN's (Neigus) response to SRI's comment (18642,) about the continuing problem of broken and silent connections.

Thanks for your pointer to ILA's message (journal,17838,). It does make sense but is not related to the problem Bair is experiencing. When the load average is high, the NCP is slow to respond to incoming RFC's (requests for connection). The TIP has a timeout of about 30 seconds (to receive a response to the RFC) and if it doesn't come by then, it times out and aborts the login attempt. Most hosts have longer timeout periods in their user Telnets, and the connection attempt is often successful there. The TIP timeout is sufficient for most hosts at most times, but a high load average on a TENEX can cause trouble. One way to get around this on a tip is to do a series of login attempts in a row, until one matches.

--Nancy

48w1a

(AAM) 29-AUG-73 05:50 18702 Response to a SNDMSG from RADC 48x

Message: Dear Mr. Bair,

I apologize for not sending a message to RADC on Monday morning, August 27, reminding your personnel that Tuesdays are release days. On the other hand, our records show that both RADC and SRI were up and operating correctly from 8am (Eastern Time) on. While I understand your frustration, there is little we can do ex post facto to help diagnose the causes of your trouble. The next time it occurs, would you call Nancy Neigus at the Network Control Center and perhaps we can make some progress.

Regards,

Alex McKenzie

48x1

(WRF) 14-SEP-73 08:44 19078 Monitor Work for Next Few Weeks 48y

Message: For the next few weeks, Jim Blum and I will be working on assembling and testing the TENEX monitor for the Tymshare utility. Our work is going to require some amount of system downtime. I realize that this may pose an inconvenience to some of you, but please bear with us. In an attempt to allow you to arrange your schedules, I will keep the UP-DOWN schedule current. If you have any large jobs which will require the system at night, feel free to tell me, and we will negotiate the schedule.

48y1

Journal Documents Received and READ to early Nov. 73

(AAM) 1-OCT-73 10:50 19383 Network Software Maintenance
(JJOURNAL, 19383, 1:w)

48z

EJK 30-AUG-73 07:58 18716

Jim Bair's finale

Message: capt Bair will be making a summary and status report on his findings in the evaluation to-date. Mac' office 1500 30 Aug. Too bad if you don't log in and get your mail - you missed it.

48a@

JLM 4-SEP-73 06:26 18802

Message: Has any one heard of a set of reports done by a firm called Frost & Sullivan? I got a call from Major Zarra at esd and they have been referred to these reports as a excellent summary of the sota in daa procesing but they are quite expensive and he is hoping that we might have a set. They sound like they are simalar to the ones done by Auerabach. I have to call him back by wed. Send me a message if you have heard of them or know there where abouts.

48aa

AAM 30-AUG-73 14:32 18728
Scheduled Software Maintenance
Location: (MJOURNAL, 18728, 1:w)

48ab

DLS 30-AUG-73 14:19 18727
Leith Plays at the IMLAC (accompanied by the ELF on the Execuport)
Location: (MJOURNAL, 18727, 1:w)

48ac

BAH 10-AUG-73 15:29 18366
JUL 29 - AUG 4, 1973: A WEEK IN REVIEW
Location: (MJOURNAL, 18366, 1:w)

48ad

BAH 30-JUL-73 11:33 18075
JUL 15-21, 1973: A WEEK IN REVIEW
Location: (LJOURNAL, 18075, 1:w)

48ae

WPB 20-JUL-73 08:22 17946
bethke directory
Message: subject..bethke file user.. capt daughtry shares this file with the esteemed chief..ex-chief that is..submitt messages with appropriate attention comments..thank you. dave.

48af

EJK 19-JUL-73 08:17 17885

Journal Documents Received and READ to early Nov. 73

untitled

Message: uncritical comment, we'll miss you when you're gone - but not too much.

*****Note: this is a test, and the message is for bair*****

48ag

BAH 19-JUL-73 13:15 17892
 JUL 8-14, 1973: A WEEK IN REVIEW
 Location: (LJOURNAL, 17892, 1:w)

48ah

TFL 18-JUL-73 14:14 17872

Message: this is a test message to see if DVN has fixed the Journal distribution to groups...If he has this should go to all people listed under the group ident RADC

48ai

NDM KIRK 13-JUL-73 14:53 17782 [NWG/RFC# 544]
 Locating On-Line Documentation at SRI-ARC
 Location: (LJOURNAL, 17782, 1:w)

48aj

DVN 16-JUL-73 08:50 17820
 Advanced NLS Course Outline for Rome July 17th-18th
 Location: (LJOURNAL, 17820, 1:w)

48ak

BAH 9-JUL-73 11:48 17719
 JUN 24-30, 1973: A WEEK IN REVIEW
 Location: (KJOURNAL, 17719, 1:w)

48al

JPC 9-JUL-73 11:04 17715
 'PROFUSIONCY' Exercise
 Location: (KJOURNAL, 17715, 1:w)

48am

BAH 12-JUL-73 12:59 17767
 JULY 1-7, 1973: A WEEK IN REVIEW
 Location: (KJOURNAL, 17767, 1:w)

48an

BAH 11-JUL-73 21:59 17754
 Revised Revised JUN 24 - 30: A WEEK IN REVIEW
 Location: (KJOURNAL, 17754, 1:w)

48ao

BAH 11-JUL-73 21:51 17753

Journal Documents Received and READ to early Nov. 73

REVISED JUN 24 - 30: A WEEK IN REVIEW

Location: (KJOURNAL, 17753, 1:w)

48ap

Comments: This document replaces 17719. Thanks to Paul, some horrendous errors were discovered, and are now corrected.

43ap1

EJK 6-JUL-73 11:23 17687

my first journal - the cherry is busted

Message: 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.

48aq

BAH 29-JUN-73 17:18 17584

Jun 17-23, 1973: A WEEK IN REVIEW

Location: (JJOURNAL, 17584, 1:w)

48ar

BAH 21-JUN-73 15:54 17407

JUNE 10-16, 1973: A WEEK IN REVIEW

Location: (JJOURNAL, 17407, 1:w)

48as

JCN 17-JUN-73 14:35 17248

ARC SYSTEM USE GROUP ALLOCATIONS AND ASSIGNMENTS

Location: (JJOURNAL, 17248, 1:w)

48at

Comments: This is submitted for your review and comments. Please transmit any responses to RWW DCW and JCN via the Journal. I will be away from ARC until 6/25, but will pick up again there.

43at1

BAH 12-JUN-73 16:56 17142

June 3-9, 1973: A WEEK IN REVIEW

Location: (JJOURNAL, 17142, 1:w)

48au

BAH 12-JUN-73 09:17 17126

May 27 - June 2, 1973: A WEEK IN REVIEW

Location: (JJOURNAL, 17126, 1:w)

48av

BAH 8-JUN-73 11:38 17099

May 20-26, 1973: A WEEK IN REVIEW

Location: (GJOURNAL, 17099, 1:w)

48aw

Journal Documents Received and READ to early Nov. 73

TFL 6-JUN-73 08:00 17056
Sendprint Instructions for RADC troops
Location: (HJOURNAL, 17056, 1:w) 48ax
Comments: Journaling to free up file space for new directories 48ax1

TFL 6-JUN-73 08:14 17058
Instructions for using DNLS via ARPANET from IMLAC
Location: (HJOURNAL, 17058, 1:w) 48ay
Comments: Journalizing to free file space for new directories 48ay1

TFL 6-JUN-73 08:07 17057
Requirement for Graphics Printer
Location: (HJOURNAL, 17057, 1:w) 48az
Comments: Journalizing to free file space for new directories 48az1

TFL 6-JUN-73 08:36 17060
Statement of Work for AKW Line Printer
Location: (HJOURNAL, 17060, 1:w) 48ba
Comments: Journalizing to free file space for new directories 48ba1

TFL 6-JUN-73 08:26 17059
notes on interfacing line printer, tycom, ti 725, ialac to TIP
Location: (HJOURNAL, 17059, 1:w) 48ba
Comments: Journaling to free file space for new directories 48ba1

DLS 19-MAY-73 13:28 16697
First Impressions of the TNLS Calculator
Location: (IJOURNAL, 16697, 1:w) 48bb

BAH 25-MAY-73 10:47 16806
May 15-19, 1973: A WEEK IN REVIEW
Location: (IJOURNAL, 16806, 1:w) 48bc
Comments: There is data for a partial week again due to the
consequence of the system crash mentioned in last week's
comments...bah 48bc1

Journal Documents Received and READ to early Nov. 73

BAH 17-MAY-73 17:00 16652
 May 6-11, 1973: A WEEK IN REVIEW
 Location: (IJOURNAL, 16652, 1:w)

48bd

Comments: The values are a little short this week (6 day instead of 7 day week) because of a system crash that resulted in loss of fact data. Also, the entry for Sweet (Xerox) was in error and had to be deleted...bah

48bd1

DVN 21-MAY-73 12:44 16705
 Editing Proficiency Test :My Thoughts on (radc,prog,)
 Message: In response to (JOURNAL,16658,) I have read (radc,prof,). I agree that it looks good for atleast a first cut at an editing proficiency test . Maybe we would want something more extensive later.

48be

BAH 22-MAY-73 10:51 16763
 RADC JOURNAL CATALOG
 Location: (IJOURNAL, 16763, 1:w)

48bf

BAH 10-MAY-73 16:57 16352
 APR 29 - May 5: A WEEK IN REVIEW
 Location: (IJOURNAL, 16352, 1:w)

48bg

DVN 30-APR-73 16:30 16245
 A Matrix is More Useful Than a Tree
 Location: (MJOURNAL, 16245, 1:w)

48bh

DLS 5-MAY-73 13:00 16297
 List of topics for JLM to cover during visit to ARC
 Location: (IJOURNAL, 16297, 1:w)

48bi

Comments: Add to or subtract from this list as you see fit--RADC troops should do this before Tuesday, MAY 8th.

48bi1

BAH 3-MAY-73 21:53 16280
 April 22-28, 1973: A WEEK IN REVIEW
 Location: (IJOURNAL, 16280, 1:w)

48bj

JCN 1-MAY-73 07:04 16258
 Note to Jim Bair
 Message: Thanks for the note on the ICA. I'm glad you got to Bell. I

Journal Documents Received and READ to early Nov. 73

was impressed with their people. No, I don't think your text ed comparison should go to them until it is finished. I think these comparisons (from what I've seen so far) are difficult to bring off in a way that gives readers a feeling that a "fair" comparison was made. I'll look at yours and comment.....maybe it does it. Typos ignored (the last time I thought we were under pressure haha)

48bk

BAH 1-MAY-73 01:59 16255
APR 15-21, 1973, A WEEK IN REVIEW
Location: (MJOURNAL, 16255, 1:w)

48bl

DVN 13-APR-73 08:58 15931
The Journal is One Kind of Dialog Support
Message: The Journal is a subset of the Dialog Support System. Shared images, for example are, another dialog support system within nls. But because the journal has been far and away the most prominent system, people have often confused the part with the whole; that is sloppy use of language.

48bm

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

48bn

DLS 5-APR-73 07:55 15503
Mustang, Weather, Misc--Response to 15495--
Message: The Mustang has quit--the transmission gave out at 94,000. I may unload it on a young kid, who has more time than brains. (he thinks he can fix it) The weather is something I'd rather not talk about--cold raining floods snow last night. This is not unusual for this part of the country, this time of year; but we have been spoiled by a mild winter and an early (we thought) Spring.--Look forward to talking with you about work topics via SNDMSG and Journal in the near future. Procurement has the extension for the BR-700 for six months. Our management has agreed to extend for a year, but will extend for another six months out of FY-74 funds (if we get any).

48bo

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

48bp

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,

Journal Documents Received and READ to early Nov. 73

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

48bq

DVN 3-APR-73 12:13 15459
A Few Thoughts on 'Experiences with AHI'
Location: (MJOURNAL, 15459, 1:w)

48br

JCN 2-APR-73 18:07 15442
Notes for Jim Bair on His Paper 4/2
Location: (MJOURNAL, 15442, 1:w)

48bs

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

48bt

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

48bt1

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

48bu

BAH 29-MAR-73 23:03 15396
MAR 18-24, 1973, A Week In Review
Location: (MJOURNAL, 15396, 1:w)

48bv

JCN 27-MAR-73 17:59 14405
ARC Questions of ARPA Regarding Commercial Users' Access to the Workshop Utility
Location: (MJOURNAL, 14405, 1:w)
*****Note: Author Copy*****

48bw

JCN 16-MAR-73 7:40 15127
About Workshop Utility Costs - Comments for Jim Bair, RADC

Journal Documents Received and READ to early Nov. 73

Location: (LJOURNAL, 15127, 1:w)

48bx

DLS 12-MAR-73 7:15 15006

Response to Borden meeting

Location: (LJOURNAL, 15006, 1:w)

48by

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

48by1

DCE 19-MAR-73 16:47 15141

115 Relevant statements transcribed from Drucker X(3074,) X(4247,), Anderson and Coover X(13956,), and DCE's OSR62 X(3905,), as relevant to Knowledge Workshops, cf J(14724,).

Location: (LJOURNAL, 15141, 1:w)

48bz

JEW 20-FEB-73 11:28 14546

Bugs Fixed in Print Journal

Location: (IJOURNAL, 14546, 1:w)

*****Note: (Secondary Distribution Copy)*****

48ca

DLS 9-FEB-73 8:15 14359

RADC TRIP TO ARC

Location: (IJOURNAL, 14359, 1:w)

48ca

Comments: I will start a file (stone,sabpitch,) which you can look at anytime ; which will contain my thoughts on the presentation.

48ca1

DVN 9-FEB-73 17:38 14360

In Case of Trouble Call Ken

Location: (IJOURNAL, 14360, 1:w)

48cb

JLM 7-FEB-73 6:24 14327

task write ups

Message:

48cc

Comments: I am now beginning to use the task write ups for a number of uses. One in particular is to update a report I intend to give to behke and file on a monthly basis. As a result it is important that the task write ups be updated once a month. The report is titled misp in my file and I suggest you read for info. Lets make the 15th of each month.

48cc1

Journal Documents Received and READ to early Nov. 73

JCN 1-FEB-73 14:46 13419

Re: Net Port Availability - Response to (14124,)

Location: (IJOURNAL, 13419, 1:w)

48cd

BAH 1-FEB-73 11:25 14166

JAN 21-27, A Week In Review

Location: (IJOURNAL, 14166, 1:w)

48ce

BAH 23-APR-73 21:54 16099

APR 8-14 1973, A Week In Review

Location: (MJOURNAL, 16099, 1:w)

48cf

Comments: Overlook the journal item that preceded this one--the date is incorrect.

48cf1

BAH 23-APR-73 21:43 16098

APR 1-7 1973, A Week In Review

Location: (MJOURNAL, 16098, 1:w)

48cg

BAH 18-APR-73 00:03 15995

APR 1-7 1973, A Week In Review

Location: (MJOURNAL, 15995, 1:w)

48ch

BAH 6-APR-73 23:16 15626

MAR 25-31, 1973, A Week In Review

Location: (MJOURNAL, 15626, 1:w)

48ci

LPD 29-MAR-73 23:49 15416

Re: text editors vs. NLS

Message: Replying to your SNDMSG: I'm not actively involved in any NLS vs. text editor comparison, although I am interested in the subject and participated in a NLS vs. WYLBUR dialog (in the Journal) with Dick Watson (RWW) and others last year. I will read your file (BAIR,TEXTED,) with interest. I am familiar with the 940 text editor, QED, the PDP-10 editor, TECO, the Nova series editor, and various ATS/360 services; also with 940 and PDP-10 RUNOFF; also with some lesser-known systems like the BBN-LISP editor (which is entirely LISP-oriented but has a lot of similarities to the NLS structure editor). Please keep me posted on further investigations.

48cj

Comments: I prefer the Journal for communication since I get a permanent copy.

48cj1

Journal Documents Received and READ to early Nov. 73

BAH 21-MAR-73 10:38 15223
 MAR 11-17, A Week In Review
 Location: (LJOURNAL, 15223, 1:w)

48ck

BAH 14-MAR-73 21:57 15104
 MAR 4-10, 1973, A Week In Review
 Location: (LJOURNAL, 15104, 1:w)

48cl

Comments:

Master Copy Printed by WRF
 Access Copy Printed by WRF

48cl1

DFB 12-MAR-73 8:23 15003

Message: James- When is an updated copy of the general users manual going to be available? FROM DEANE

48cm

BAH 7-MAR-73 21:43 14926
 FEB 25 - MAR 3, 1973, A Week In Review
 Location: (IJOURNAL, 14926, 1:w)

48cn

Comments:

48cn1

DLS 5-MAR-73 6:34 14871
 PROPOSAL FOR ADDITIONAL AKW TERMINALS
 Location: (JJOURNAL, 14871, 1:w)

48co

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

48co1

DVN 5-MAR-73 8:20 14882

Please enter items about COM in the DPCS subcollection

Message: When you send journal items to Dean asking for COM services, such as (journal,14868,), it would be a service if you would specify subcollection DPCS as well as SRI-ARC. By the way, you can only do so in TNLS.

48cp

Comments: This item is addressed to Dick Watson, but goes to all of you for information.

48cp1

DLS 2-MAR-73 13:16 14850
 Minutes of Meeting on Terminal Proposal

Journal Documents Received and READ to early Nov. 73

Location: (JJOURNAL, 14850, 1:w) 48cq

Comments: Includes revisions based on comments received 48cq1

DVN 20-FEB-73 21:04 14542
 NLS Continuing Education; Continue, Change, or Drop?
 Location: (IJOURNAL, 14542, 1:w) 48cr

BAH 28-FEB-73 10:54 14822
 FEB 18-24, 1973, A Week In Review
 Location: (IJOURNAL, 14822, 1:w) 48cs

Comments:
 Master Copy Printed by WRF
 Access Copy Printed by WRF 48cs1

DLS 28-FEB-73 10:10 14826
 Draft Proposal for Additional Terminals
 Location: (IJOURNAL, 14826, 1:w) 48ct

Comments: Please review this and be ready for discussion at meeting
 28 Feb 73.
 Master Copy Printed by WRF
 Access Copy Printed by WRF 48ct1

BAH 22-FEB-73 12:08 14707
 FEB 11-17, 1973, A Week In Review
 Location: (IJOURNAL, 14707, 1:w) 48cu

Comments: 48cu1

DLS 20-FEB-73 11:34 14540
 Trip Report--SRI--13-14 FEB
 Location: (IJOURNAL, 14540, 1:w) 48cv

Comments: This report was prepared by using the "trip" file in the
 RADC directory. It contains hopeful words about the calculator
 and the forms packages. Also note the use of links to eliminate
 replication of verbage.
 Master Copy Printed by WRF
 Access Copy Printed by WRF 48cv1

DVN 12-FEB-73 9:49 14385

Journal Documents Received and READ to early Nov. 73

Dean Meyer Is the Best Person to Help You with Output Processor or User Programs

Location: (IJOURNAL, 14385, 1:w)

48cw

BAH 8-FEB-73 10:50 14339

Jan 28 - Feb 3, 1973, A Week In Review

Location: (IJOURNAL, 14339, 1:w)

48cx

Comments:

Master Copy Printed by WRF

Access Copy Printed by WRF

48cx1

DVN 31-JAN-73 13:48 14151

Network Ports; comment on (journal,14124,) & (journal,14139,)

Message: They're right.

48cy

DVN 30-JAN-73 16:36 14140

A Few Ways to Avoid Putting Output Processor Directives in by Hand; reply to 14117

Location: (IJOURNAL, 14140, 1:w)

48cz

DVN 29-JAN-73 19:57 14130

Help With Output Processor Directives; reply to (14097)

Location: (IJOURNAL, 14130, 1:w)

48d@

DLS 29-JAN-73 13:53 14119

NEW JOURNAL COMMAND FORM

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

48da

Comments: 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.

48da1

KIRK 8-NOV-73 17:12 20121

NOUN-TYPE keywords should allow adverbs and adjectives where it saves typing.

Location: (IJOURNAL, 20121, 1:w)

48db

KIRK 3-NOV-73 10:10 20032

Journal Documents Received and READ to early Nov. 73

Update to Request for changing the definition of LEVEL-ADJUST
 Message: 20024 below refers to the Command language in the
 experimental system

48dc

BAH DVN 26-JAN-73 10:28 14084
 JAN 15-19, A Week In Review
 Location: (IJOURNAL, 14084, 1:w)

48dd

Comments: You can look to receive a report of this sort by
 Thursday of every week. -bah

48dd1

DVN 23-JAN-73 10:00 14042
 Plans for Command Changes that May be of Interest to People on the
 Net.
 Location: (IJOURNAL,14042,1:w)
 *****Note: (Secondary Distribution Copy)*****

48de

DVN 17-JAN-73 9:26 13838
 DRAFT Spec for Regular Report to Rome on System Use
 Location: (MJOURNAL, 13838, 1:w)

48df

Comments: This is a draft. If no one tells me about changes he
 wants by 1/23, I will deem it the spec and ask BAH to do it.

48df1

DVN 3-JAN-73 15:55 13665
 How to print through a TIP
 Message: When you send an NLS file through our output processor, you
 creat a sequential file. It is possible to print such sequential
 files throug a TIP. A somewhat criptic description of the commands
 involved appears in (wallace,send-print-how,). Within a few days I
 plan to issue a rewrite that will demand less background knowledge.

48dg

Journal Documents Received and READ to early Nov. 73

(J20870) 12-DEC-73 21:57; Title: Author(s): James H. Bair/JHB;
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