I requested

I requested Dirk, I requested <xhelp>graphics be unarchived. Bev, have received no Kirknotes (perhaps the journal is full again?) in which case when you get this, I should get the Kirknotes.

Dirk, I hope you link to graphics has a left angle bracket.

Remember, access is augmentation! unhy 1

I requested

(J33800) 1-NOV-75 19:31;;;; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /DVN([INFO-ONLY]) BEV([INFO-ONLY]) ;
Sub-Collections: SRI-ARC; Clerk: KIRK;

33800 Distribution
Dirk H. Van Nouhuys, Beverly Boli,

WML 1-NOV-75 20:12 33801

test msg

This s a test message sent to myself. 1

WML 1-NOV-75 20:12 33801

test msg

(J33801) 1-NOV-75 20:12;;;; Title: Author(s): Walter M. Lamia/WML;
Distribution: /WML([INFO-ONLY]) ; Sub-Collections: NIC; Clerk: WML;

33801 Distribution
Walter M. Lamia,

RWH 3-NOV-75 07:53 33802

REPLY TO RICH

I HAVE RECEIVED RICH'S LETTER, MY COMMENTS FOLLOW, 1

I FEEL THAT IT IS FOOLISH TO CUT OFF AREAS 20,21 AND 25 FROM 24, THEY RELY ON SEVERAL COMMON SOURCES OF INFORMATION, THE MORE WE SPLIT THINGS UP LIKE THIS, WE LOOSE ECONOMIES OF SCALE, HOWEVER IF PETER MILLER CAN DO AREA 24 IN 3,5 DAYS, TAKING INTO ACCOUNT STUDIES OF STAFF WHO HAVE MOVED WITH THEIR OFFICES, THEN 18,5 DAYS IS ENOUGH FOR THE REST, 2

SIMILARLY MILLER DOING AREA 47 AND NOT 32 SEEMS FOOLISH, I REGARD 47 AS A RATHER TRIVIAL COROLLARY OF 32, SINCE LITTLE ELSE IS KNOWN,SO 7,5 DAYS IS PROBABLY ENOUGH, ALTHOUGH I THINK IT COULD BE DONE MORE CHEAPLY, 3

IF MILLER DOES 34 HE MUST DO AT LEAST PART OF 33 AS THEY ARE INTERRELATED, YOU ARE RIGHT THAT I AM INTERESTED IN 33 AND 34, BUT I AM NOT PREPARED TO TACKLE THEM WITH ONLY 8 DAYS, THAT WOULD REQUIRE A GREAT DEAL OF FAMILIERITY WTH THE AREA AND UNLESS WE CAN FIND SOMEONE WHO HAS IT, THIS TIME ALLOCATION MUST BE INCFEASED, I CAN DO AREA 32 IN 7,5 DAYS OR LESS, 4

AREA 50 DOES NOT SEEM TO ME TO BE AN IMPACT AREA BUT PART OF BACKGROUND ANALYSIS, I WOULD HAVE THOUGHT THAT SOME OF THE TRANSPORT PEOPLE WOULD BE BETTER FOR AREA 2 (NO OFFENCE RAY), BUT RA3Y FOR AREAS 3 AND 27 MIGHT BE A GOOD IDEA, AREA 27 IS VERY IMPORTANT AND REQUIRES QUANTIIATIVE TREATMENT, AS SUCH 8 DAYS IS FAIRLY MINIMAL, 5

CAN RICH REALLY DO AREA 22 IN 4 DAYS? 6

I AM HAPPY FOR PHIL TO DO AREA 26, BUT DOUBT THAT INFO ON TRAVEL VOLUMES CAN BE GATHERED IN LESS THAN 10 DAYS, IF THAT, 7

I DOUBT THAT AREAS 28-31 AND 35 CAN BE TREATED IN MUCH LESS THAN 17 DAYS, 2 OR 3 LESS PERHAPS BUT NO MORE, 8

I AM STILL UNCERTAIN ABOUT AREA 23, WHAT EXACTLY DO WE WANT TO DO? 9

OVERALL COMMENTS: I AM NOW CONFUSED AS TO HOW MUCH TIME WE ARE ALLOCATING TO WHAT, WE SEEM TO BE ALLOCATING ABOUT 25% OF TOTAL EFFORT TO IMPACT ANALYSIS, ONLY A FEW AREAS (E,G, 20,32) ARE CAPABLE OF BEING CUTDRASTICALLY, IF LESS THAN 8 DAYS IS ALLOCATED TO AN AREA, THEN WE ARE RESRICTED TO WRITING DOWN WHAT WE ARLREADY KNOW, SADLY WE DONT KNOW VERY MUCH ABOUT SOME OF THE IMPACT AREAS YET, 10

11

REPLY TO RICH

(J33802) 3-NOV-75 07:53;;;; Title: Author(s): Roger W. Hough/RWH;
Distribution: /PIW([ACTION]) RWH([ACTION]) ; Sub-Collections:
NIC; Clerk: RWH; Origin: < HOUGH, REPLY-TO-RICH.NLS;1, >,
3-NOV-75 07:09 RWH ;;;;####;

33802 Distribution
Phil I. Weintraub, Roger W. Hough,

JJL2 3-NOV-75 08:20 33803

hello

Hi Becky! I am doing great and you? Hope you havn't been doing to much overtime. Thank you for the documentation . Do you need a copy of it ? Well I will send you a copy of it anyway in the holy envelope system. Talk to you later. Is lynn back from leave? By for now . Take it easy.

1

hello

(J33803) 3-NOV-75 08:20;;;; Title: Author(s): John J. (Jay) Lowe/JJL2; Distribution: /RAR2([ACTION]) ; Sub-Collections: NIC; Clerk: JJL2;

33803 Distribution
Rebecca A. Reid,

notes on CMI-3 nd WHY we're doing it, and WHY NOW

The Business Planning Group has been actively investigating office automation systems and their impact on Bell Canada for the last three years. Part of this research has been conducted at BNR Systems Engineering and the BNR Computer Center under the Computer Mediated Interaction cases. 1

Computer Mediated Interaction (CMI) is an approach to computer timesharing which provides the manager with the capability to store textual information on a computer file and to use the computer to manipulate and share this information with other managers in a computer conferencing environment. 2

The third generation of CMI systems Engineering, CMI-3, is now operating on a mini-computer at BNR, and the evaluation of the use of this system by outside users on a trial basis is proposed to start in January, 1976. BNR Systems is cooperating in these trials by providing evaluation expertise and by interfacing between the system designers and CC CC Market Planning, the sponsors of the trial. The purpose of these trials is to learn how managers make use of systems of this type. This information will be required in order to estimate the demands placed by future CMI users on computer hardware, on network facilities, and on terminal equipment. Also, there is a very real possibility that CMI-3 will develop into a service Bell Canada service offering, should the results of these trials be encouraging. 3

At the same time, further work at the BNR Computer Center is proposed to build additional capabilities into the current system. These additional capabilities include improvements in text editting package, enhancing the ease of interacting with the computer, and possibly providing a limited voice-response capability. The reason for this additional work is to stay abreast of the technical developments in this field; systems similar to CMI-3 are currently being offered by a number of companies to the general public, and in order to maintain a potentially competitive service, continuing development work must take place. 4

notes on CMI-3 nd WHY we're doing it, and WHY NOW

(J33806) 3-NOV-75 12:49;;;; Title: Author(s): Michael T. Bedford/MIKE; Distribution: /MK6([INFO-ONLY]) ; Sub-Collections: NIC; Clerk: MIKE;

33806 Distribution
Mike Katsoulis,

JMB 3-NOV-75 14:38 33807

ANSWER to Problem trying to make ETS Application work (cf.--33735,)

My journal item <33735,> described attempts to try out an application of the Print Journal and Output Journal quickprint commands which was described in the ETS Application Description (33201,3d6b). 1

Robert Lieberman provided the answer to the problems we had, and I tested it: 2

The links should be delimited by parentheses, not anglebrackets. 3

The instructions for this application in <33201,3d6b2> or in <JMB's copy--33735,3a2> should read: 4

> "A special application of the Journal Quickprint or Print Journal commands may be used if the links are of the form:
> Location: (LINK)
> ..." 4a

So I changed the links in my branch to be bounded by parens, and it seems to work with both Output Journal (quickprint) File and Print Journal (mail) commands. My corrected branch follows. You are welcome to try it out (Locate yourself in my file <beck,ojqftest,> and use the Output Journal or Print Journal command.). 5

(journal) Citations: 6

> Here is an abstract:
> Location: (beck,abstract,) 6a

> Here is a menu:
> Location: (beck,menu,) 6b

EJK & ELF: please try this out in your environment and let JMB and FEEDBACK know if you succeed and if you have any other questions. 7

JMB 3-NOV-75 14:38 33807

ANSWER to Problem trying to make ETS Application work (cf.--33735,)

(J33807) 3-NOV-75 14:38;;;; Title: Author(s): Jeanne M. Beck/JMB; Distribution: /FEEDBACK([ACTION]) ELF([ACTION]) EJK([ACTION]) JHB([INFO-ONLY] The application works, but only if you use parens around the links) ARC-ADG([INFO-ONLY]) DAP([INFO-ONLY]) RLL([INFO-ONLY] thanks!) ; Sub-Collections: SRI-ARC FEEDBACK ARC-ADG; Clerk: JMB; Origin: < BECK, OJQFTEST,NLS;6, >, 3-NOV-75 14:34 JMB ;;;;####;

33807 Distribution
Special Jhb Feedback, Edward F. LaForge, Edmund J. Kennedy, James H. Bair, Jeanne M. Beck, Laura J. Metzger, James H. Bair, David A. Potter, Robert N. Lieberman,

DCE 3-NOV-75 14:54 33808

NLS bug: CM repositioned oddly after a move operation

Do a Process Commands Branch on A, and it turns out that the CM is left positined at X,d, It should remain at X. 1

(Y) 2

yyy one 2a

yyy two 2b

(X) 3

xxxxx one 3a

xxxxx two 3b

(A) 4

jum ite xlz 4a

mov ple y,d,d 4b

set vie F 4c

DCE 3-NOV-75 14:54 33808

NLS bug: CM repositioned oddly after a move operation

(J33808) 3-NOV-75 14:54;;;; Title: Author(s): Douglas C. Engelbart/DCE; Distribution: /FDBK([ACTION]) ; Sub-Collections: SRI-ARC FDBK; Clerk: DCE;

33808 Distribution
Special Jhb Feedback,

DVN 3-NOV-75 15:33 33809

Telephone Contact with Duane Stone Concerning RADC Support for DPCS Development

This morning I spoke with Duane Stone about the possible development work on NLS as a publications tool discussed in (33737,) and (26763,). I got the following new information of note; 1

He believes that about $150,000 can be added to the NSW project for this work. He has talked to all the people he believes need to sign off and they agree and he started the paper work today. It might be possible for work to start as early as "around Christmas". 1a

SRI will have to make a proposal. This proposal should be based on a specifications document he is now writing. 1b

I opened the idea of people from the ISG being involved. I suggested specifically the possibility of Tom Humphrey and in that connection mentioned his SRI report. Duane asked for a copy of the flow charts to aid him in writing his specifications document. Tom OK'd sending them and they are in the mail along with a copy of the GE proposal(25930,) and the GE RFQ. 1c

Duane wants to end up with a design for atleast the Output Processor part of the system that "will last 5 years"...that is the design should specify the right answer even if it goes beyond the $150,00 budget . However he wants a phased plan so appropriate parts could be implemented soon. He has in mind particularly the Gunter publication effort and the Language control Center proposed for Rome, that tasks revolving around Air Force Manuals, but wants a more general approached than dictated by any one job. 1d

DVN 3-NOV-75 15:33 33809

Telephone Contact with Duane Stone Concerning RADC Support for DPCS Development

(J33809) 3-NOV-75 15:33;;;; Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /DOCPLAN([INFO-ONLY]) POOH([INFO-ONLY]) DLS([INFO-ONLY]) ; Sub-Collections: SRI-ARC DOCPLAN; Clerk: DVN;

33809 Distribution

Joseph L. Ehardt, Raymond R. Panko, James H. Bair, David R. Brown, Glenn A. Sherwood, N. Dean Meyer, Kathey L. Mabrey, Norman R. Nielsen, Thomas L. Humphrey, Robert Louis Belleville, Elizabeth K. Michael, Richard W. Watson, James C. Norton, Robert N. Lieberman, Pat Whiting O'Keefe, Douglas C. Engelbart, Dirk H. Van Nouhuys, Ann Weinberg, Duane L. Stone,

Notes on Organization of Multi-Client Communities at SRI II, The Long Range Planning Service

On Tuesday, September 9, I spoke with E. Riggs Monfort, Marketing Manager of Client Relations for the Long-Range Planning Service. 1

The Long Range Planning Service publishes reports related to the business opportunities in various fields, geographical areas, etc. They are white, nicely printed, have titles, like "Greece" or "Word Processing". In a sense it competes with groups like R.D. Little, or even Kiplinger Letters. LRPS also answers its subscriber's questions when it can do so "off the top of our heads," refers more difficult questions to other parts of SRI to become contract work, and holds seminars where, among other things, other parts of SRI display their capabilities to possible customers. 2

Long Range Planning Service has no problem identifying its clients. They are the large corporations. "Fortune's last list is our list of prospects," Monfort said. He feels that they have largely saturated their market except where changes in management bring a new person into a position to buy in an organization not now subscribing. When they hear of that happening someone, usually from an SRI field office, calls the new prospective buyer without necessarily having a prior personal contact. 3

LRPS chooses its own subject matter; customers have no formal voice. But they have been known to complain and their complaints along with the LRPS staff's knowledge of the customers and of their fields determine what they undertake. Formally, there is an internal proposal system; a staff member writes a small proposal to work on some subject, and a management committee accepts or rejects the proposal. They have done surveys of clients needs in the past. They circulate a tempting newsletter to clients and non-clients. 4

When I asked Monfort what I should have asked, he emphasized that to deal with commercial clients as opposed to government, particularly military, the seller must be really oriented towards giving service, "not arrogant". He also emphasized that the decision to buy among such customers was comparatively more emotional and less analytical than in government customers. 5

6

DVN 3-NOV-75 17:02 33810

Notes on Organization of Multi-Client Communities at SRI II, The Long Range Planning Service

(J33810) 3-NOV-75 17:02;;;; Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /DOCPLAN([INFO-ONLY]) ; Sub-Collections: SRI-ARC DOCPLAN; Clerk: DVN;

33810 Distribution

Joseph L. Ehardt, Raymond R. Panko, James H. Bair, David R. Brown, Glenn A. Sherwood, N. Dean Meyer, Kathey L. Mabrey, Norman R. Nielsen, Thomas L. Humphrey, Robert Louis Belleville, Elizabeth K. Michael, Richard W. Watson, James C. Norton, Robert N. Lieberman, Pat Whiting O'Keefe, Douglas C. Engelbart, Dirk H. Van Nouhuys,

JHB 3-NOV-75 17:20 33811

opps and theAKW Seminar

Sorry about that name mistype. You'd think that after 4 years I'd know it by now.... Glad you'll be her for the Seminar. 1

opps and theAKW Seminar

(J33811) 3-NOV-75 17:20;;;; Title: Author(s): James H. Bair/JHB;
Distribution: /RLL([INFO-ONLY]) DVN([INFO-ONLY]) ;
Sub-Collections: SRI-ARC; Clerk: JHB;

33811 Distribution
Robert N. Lieberman, Dirk H. Van Nouhuys,

ESV 3-NOV-75 18:09 33813

group of training messages

shirley - thought you might not have gotten these messages and would find them of interest and use.

group of training messages

training 1

3-OCT-75 1641-P SGR: Description of how NLS is expected to be taught at remote AMC sites
Distribution: SGR ARC-APP ESV
Received at: 3-OCT-75 15:38
Location: (HJOURNAL, 26627, 1:w) 1a

Comments: The Basic Course (32609,) will be necessary to accompany this description. Any suggested changes should be brought to my attention by Monday afternoon. It should also be noted that the journal delivery for all AMC users has been changed to both network and online. 1a1

10-SEP-75 1243-P TJD: nls training
Distribution: TJD ESV PAW2
Received at: 10-SEP-75 13:56
Location: (JOURNAL, JRNL29, J33443:gw) 1b

Message: 1b1

1b1a

28-AUG-75 1224-P SGR: Past and Future AMC Training
Received at: 28-AUG-75 11:41
Location: (HJOURNAL, 26336, 1:w) 1c

18-AUG-75 1152-P SGR: New Home for User Services Trainers
Distribution: SGR SRI-ARC KWAC
Received at: 19-AUG-75 15:01
Location: (JOURNAL, JRNL28, J26288:gw) 1d

Message: 1d1

The following people will begin using bbnb for their primary source of computer power: Susan Roetter, Jeanne Beck, Rita Hysmith, Priscilla Wold, and Pam Allen (directory is PALLEN). Please direct sndmsg's to us at bbnb. We will have directories at office-1 for a time to avoid missing mail but will be reading mail more frequently at bbnb. 1d1a

ANNOUNCEMENT: AKW Seminar for 17 November 1975.
Location: (IJOURNAL, 26683, 1:w)
rLL 16-OCT-75 19:14 26683

1e

Comments: This covering letter to a brochure JHB composed is available inhardcopy from RLL. Any leads would be appreciated. Let me know any interest, thanks Rob. 1e1

ESV 3-NOV-75 18:09 33813

group of training messages

(J33813) 3-NOV-75 18:09;;;; Title: Author(s): E. S. VonGehren/ESV;
Distribution: /SMM2([ACTION]) ; Sub-Collections: NIC; Clerk: ESV;

33813 Distribution
Shirley M. Martin,

1

PROPOSED WASHINGTON PROGRAM DEVELOPMENT GROUP USE OF SRI-NLS UTILITY SLOT

2

Submitted by:
Patricia M, Whiting-O'Keefe
Research Engineer
Information Systems Group
Information Science Laboratory

3

Prepared for:
SRI Program Development Group
SRI Washington Office
Arlington, Virginia

4

I. Introduction

6

SRI has recently purchased a slot (access unit) on the NLS Utility for testing the potential for effective SRI use of this system which has been developed by ARC. Thus far, use of the slot has been heavily focused on uses pertaining to outside client projects. The application addressed herein constitutes use of the slot to enhance the effectiveness of the Program Development Group (PDG) located at SRI's Washington office by means of a Marketing Information Management System. There are several important ways in which this tool can be used to serve their needs and also be of potential use to researchers and central staff at the home office. It is these possibilities that this proposed work seeks to explore.

6a

The proposed development effort encompasses the system design of the initial PDG application on NLS, the subsequent development and implementation of this system design, hardware selection, operations personnel selection and training, and finally installation of the proposed system. The estimated elapsed time period for the completion of the above work is two months with a level of effort of ISE personnel of approximately two manmonths.

6b

II. Objectives

7

In order to evaluate the potential for NLS use by the Program Development Group (PDG), it is suggested that initially only limited goals be set so that the system can be quickly implemented and effectively put into practical use with a minimum of training of personnel and of equipment investment. In this way initial problems with file design or procedural implementation methods can be recognized and revised and the system is assured of satisfying the requirements of those making use of it.

7a

Thus it is proposed that the initial system be minimum but address problems that need immediate attention and can be readily accommodated by the system. Also the design should strive to create procedures that will be useful in a much broader context and would anticipate future applications and expansions. Thus any data base initially created should be useful in the long term and be of use to staff in Menlo Park as well as in Washington.

7b

Many needs and potential channels of application have already been investigated by Michael Placko in conjunction with the PDG. These are listed briefly below:

7c

- Promotion Reports
- Contact Reports
- Proposed Visit Reports
- Visit Reports
- Proposal Summaries
- Current Contracts or Project Summaries
- Past Project Summaries
- Qualification Summaries
- Client Information
- Client Budget Information
- Market Intelligence
- Action Required (Response Pending)
- Agenda Development
- Abstracts of Promotion Pieces
- Current Promotional Mailing List
- Activity
- Notes

7c1

While all of these items could be used to some benefit by

PDG, the current objectives are to initially implement only a subset of these goals to evaluate the effectiveness of NLS to this group at a level of investment of time, development and training that will allow the most rapid implementation. On the other hand the items chosen for development should be those which would engender the most enthusiastic response thus providing the motivation for heavy initial use of the system in the prototype environment and would urge heavy enough traffic to make the investment cost justified. The criteria then to be used in selecting the initial data bases to be implemented are: 7d

1) High priority in PDG interests 7d1

2) Data available at Menlo Park and required or useful to PDG 7d2

3) Data that may already be available in the SRI MIS computer system 7d3

4) Data that would be of immediate use to PDG on line 7d4

5) Data that would be useful in the long term throughout the institute 7d5

6) Data structures that would apply to additional groups and applications within the institute 7d6

7) Data base information that is useful from the capture point without a large supporting data base and without the need for historical data backup. 7d7

8) Data structures that could readily accommodate expansion into a large linked information base. 7d8

It should be reiterated that it is imperative that the initial implementation phase be as brief as possible to allow adequate use of the system during the initial period of SRI Utility Slot subscription to allow adequate appraisal of the system for hopefully eliciting pertinent comment on the merits of continuing use of the service and expanding the application for remote marketing locations and other in-house purposes. 7e

III. Scope

8

Based on the criteria enumerated in the previous section and on the knowledge available to us, the following set of items are recommended for initial implementation:

8a

1) Contact Reports (Second Level Priority)
2) Current Project and Proposal Information (Third and Fourth Priorities)
3) Client Information
4) PDG Travel Schedule
5) PDG Trip Reports
6) PDG Activity Log (Top Priority)
7) Visits by Agencies (Top Priority)

8a1

While the remaining items are not considered unimportant, they have for the time being been given a lower priority in this program.

8b

The proposed work then involves initial design and review of the desired applications, development of the requisite software, selection and training of suitable personnel, implementation of the system in Menlo Park, checkout and installation in Washington and pilot use of the system followed by evaluation.

8c

IV. Method of Approach

9

The approach proposed to be taken here entails a minimum commitment of time, manpower and development effort to obtain a maximum, rapid return. In this section are specified the activities that must take place in the approximate order in which they should happen in order to assure rapid implementation. 9a

These functions are: 9b

- hardware acquisition 9b1
- personnel selection 9b2
- data base definition 9b3
- procedure development and implementation 9b4
- system installation and testing 9b5
- training and pilot operation in Menlo Park 9b6
- final implementation and installation in Washington 9b7

There is an area of work that has not been independently included here but would be an important factor in the success of the program and must be dealt with by the PDG staff in Washington. This is the formulation of procedures for using the system. Several points must be dealt with: 9c

- channels for assembling material for input to the system 9c1
- the method for assuring that there is cooperation in the effort 9c2
- the means by which PDG staff inquiries against the data base are made 9c3
- the types of system interactions that will be most acceptable to the staff 9c4

- the checking of mail procedures and other potential operator accesses 9c5
- the handling of emergency inquiries 9c6
- restrictions on hard copy printout 9c7
- distribution methods on periodic reports and the way they should be formatted, 9c8

These and other points must be considered prior to installation of the system. 9d

Hardware acquisition is discussed first because ordering such equipment can imply a four to six weeks delay before delivery. While appropriate equipment may be obtainable from other sources at the Washington site, a comprehensive description of the type of equipment required or recommended is thus defined to assure at least a basic workstation arrangement will be available at both Washington and Menlo Park locations. 9e

Since at Menlo Park, workstations are available for use with all of the described equipment, the necessity for acquiring additional hardware is not as pressing. However, since the volume of use of the system will dictate the need for a convenient, close facility to the office personnel using the system with constant or on demand access required, then this additional equipment acquisition should be given early consideration. No additional equipment will be required for the training and initial implementation phases at Menlo Park. 9f

Hardware Requirements 9g

Here we describe the proposed hardware configuration for accomplishing an effective online interactive interface from the SRI-Washington office to the NLS Utility Slot on Office-1 in Cupertino, California and a similar interface for personnel coordinating with the Washington office from the Menlo Park facility. 9g1

Two scales of potential equipment commitment will be

described. The first is a minimum equipment installation suitable for evaluating the system and rapidly achieving a working system. The second is an equipment commitment compatible with more extensive use of the system not only for on line inquiry and data base updating but also for generating reproduction quality hard copy, off-line data entry and handling heavy communication traffic.

9g2

The above criteria assume that a teleprinter workstation is suitable for the proposed applications and is capable of satisfying all the terminal requirements. For a teleprinter workstation the following equipment is required.

9g3

Teleprinter type terminal
Acoustic Coupler or Modem (as determined by communications link)
Communication line to Terminal Interface

9g3a

Much experience has been gained in the configuration and the use of such stations by ISE staff. The evaluation of such equipment for various types of applications has led to an overall preferrence out of a broad market for the Texas Instrument portable terminal, the TI 725 which is currently being replaced by the equivalent but more desirable TI 735 and secondly the terminals supporting a diablo print mechanism, sJch as the GSI 300 and the ICE 300.. The TI models have built in acoustic couplers so that the only other required equipment is a telephone line. The TI 735 and the ICE 300 come standard with upper and lower case character codes. They are quiet and have a keyboard that is easy to adapt to and has a positive clean response. The TI 735 has the additional feature that it can accommodate the incorporation of a cassette recorder without requiring purchase of any non-standard options. With this configuration, a dial-up telephone line is required. Due to the long-distance nature of the connection from Washington to Office-1, a WATS line should be used, hopefully one that has periods of low use that would permit the level of traffic required for this application. It is possible that the traffic generated would require a dedicated WATS line.

9g4

Several steps toward upgrading the equipment are possible above the minimum scale mentioned above. A second stage of equipment development might include any or all of the following

items.

9g5

For phone lines having slack periods, the recommended course would be to install a cassette recorder so that data could be stored on tape in a local mode for later efficient, rapid transmission on-line during time periods when other traffic on the phone line was low. If a cassette recorder is desired, the ICP 3000-3 is recommended. Thus capture of text or data could take place off-line.

9g6

The minimum scale equipment described above has no capability for on-line printing while working at the terminal or the ability to produce good reproducible hard copy suitable for clients. This capability could be incorporated in an expanded system in the workstation by addition of an electrostatic printer of suitable quality. Also volume in this circumstance might dictate the use of two work stations, one with a cassette recorder and one without.

9g7

One other potential shortcoming of the initial minimum scale configuration is the capacity of the current lines for handling the requisite traffic. If the telephone lines were too busy, response time would be slow, potentially fostering negative attitudes toward use of the system. Eventually as the system expands and generates more traffic, a dedicated WATS line will be required. It should be noted that there have been recent announcements heralding the development of commercial data communications networks throughout the country which might prove very cost effective for an application such as this. Consideration might also be given to the potential for using Telnet for this purpose. Such services will no doubt become increasingly available in the near future.

9g8

Personnel Selection

9h

The task of selecting appropriate personnel for support work on the system is difficult and critical in that the selection can determine the eventual success or failure of the program. Here a set of guidelines will be offered for use in successful staffing of the effort.

9h1

The work to be performed on the proposed system requires persons both in Washington and in Menlo Park supporting the work. The initial effort in the Washington office is believed to require clerical support to perform data entry, data retrieval and data modification functions, and a member of the PDG staff who will be responsible for coordinating the program, monitoring system input and use, performing periodic system evaluations and performing related managerial functions. Similar clerical staffing is required in the Menlo Park office to coordinate information exchange, to to perform data entry and deletion functions and to manage communications on that end.

9h2

Several factors influencing the selection of clerical personnel to be trained for using the system are:

9h3

- they should be very familiar with the activities and mission of the people whose system inputs are channeled through them. 9h3a
- they should have adequate available time to perform all of the necessary functions on the system for the initial applications. This is estimated to require about 30 to 40% time commitment. 9h3b
- they should have a natural aptitude toward terminal work. 9h3c
- they should appreciate the requirements and interests of the people at the other office with which they interact (either Menlo or Washington). 9h3d
- they should be available for about one month of training and orientation in Menlo Park starting about Feb. 1 at the earliest. 9h3e

The PDG staff management function may require a time commitment of as much as one manweek per month.

9h4

Thus far it has been indicated that at SRI Menlo Park, Charleen McDaniel would be responsible for operating the workstation and managing data transfers.

9h5

In the Washington office, H. E. Bertrand will be responsible for the facility, and Maria Scott has been designated to handle the data entry functions. 9h6

Data Base Definition 9i

It would perhaps be valuable at this point to describe the way that it is envisioned these data bases might be structured, updated and accessed. An effective way to present this description is to offer a possible format for each of these files followed by a discussion of the way the data would be updated and finally the various ways these files might be accessed. 9j

1) Contact reports 9j1

The format of this data base is an important key to the success of this program. It is mandatory that all contact reports that are filed be entered into the system. The following is a potential structure for this file initially: 9j2

(Contact Name)	Smith, John A.	9j2a
(Title)	Manager, XYZ Program	9j2b
(Agency/Office)	HEW	9j2c
(Location/Address)	123 23nd Street ne	9j2d
	Washington, DC	9j2e
(Phone)	213-456-7890	9j2f
(SRI Reporter)	H. Bertrand	9j2g
(Date)	Jan. 1, 1975	9j2h
(Place) SRI/Agency/P		9j2i
(Others Present)	None	9j2j

PWO 4-NOV-75 08:33 33815

(Topics Covered) Discussion of potential work on a program of interest to HEW 9j2k

(Distribution) J. Rubenson
H. Blanchard
R. Dehn

9j21

(Travel/Trip/Client Links) <Travel,234,1>,<Trip,24,3>

9j2m

Of course the format or layout of this data can be modified to suit the PDG requirements. In view of the potential use of this file by groups other than PDG, a generalized format should be retained. 9j3

The way that the data base would be updated, i.e. a contact report added, is that a procedure would be invoked that would prompt the user for entry of each data element. A carriage return could be used to indicate a null response. Any other entry of text terminated by a carriage return would be inserted under the heading indicated. Only designated personnel would be able to update the data base, namely the responsible individuals at the Washington office and the the Menlo office, but a broader set of persons might be authorized to read it. Data entry would normally be restricted to occur through the update procedure, thus protecting the data from accidental disruption.

9j4

The list of persons indicated in the distribution list would receive a printout of the Contact Report whenever they logged on to the system. There will be pointers inserted in the data that will permit branching to related data in other files pertinent to the material at hand. For example, if the 'topics covered' entry in the contact report indicated that a trip had been scheduled in connection with this contact, there would be a pointer inserted at the end of that item to the details on the referenced trip in the Travel Schedule file which we have not described as yet but will discuss below.

9j5

It will also be possible to look at Contact Reports through pointers to it that may be placed in other data bases, for example, a pointer to a Report may be in a Travel Schedule

entry generated as a result of the meeting recorded in the Contact Report. Thus staff requiring more information on the nature of the trip need only jump to the indicated report and print out the topics covered or other data contained in the report.

9j6

2) Current Project and Proposal Information

9k

The SRI MIS system on the B6700 maintains current information on all projects and proposals in active status at the Institute. It would be possible to have a tape produced on that system that would contain the information on the outstanding projects and proposals in the three areas of Transporttation, Environment, and Energy. The data that would be copied to tape would supply data that would be entered into the Office-1 system to form the following data base: 9k1

Current Projects

9k1a

(Project No.)	EGD 3972	9k1b
(Title)	Study of Methods of Transferring Data Bases	9k1c
(Client)	NSF	9k1d
(Org Code)	710	9k1e
(Beginning Date)	Jan. 1, 1975	9k1f
(Ending Date)	Dec. 31, 1975	9k1g
(Status)	To be determined	9k1h
(Gov't/Non Gov't)	G	9k1i

And for Proposals:

9k2

Current Proposals

9k2a

(Proposal Number)	EGU 74-94	9k2b
(Title)	Computer System Design	9k2c
(Client)	RADC	9k2d
(Beginning Date)	Mar. 15, 1975	9k2e
(Ending Date)	June 15, 1976	9k2f

9k2g

Although the dollar value of the projects and proposals is not disclosed here, the information is still SRI confidential and as such the files would have to have restricted access. This might be set up such that file updates could only be made by tape input under a certain Username, and only SRI slot users could read the files. 9k3

These files could be looked at in a number of ways, for instance, one could look at all in-house projects for NSF, or all projects having the word "energy" in the title. 9k4

Updates to the files would depend on the manner in which they are made to the MIS system. Either periodic updates could be merged or new tapes could be generated. This would be defined by arrangements agreed upon with the MIS group. 9k5

3) Client Information 91

This data base would require major data collection efforts in order for it to be initially of value. Alternatively, although the file would not be as valuable initially, client information could be entered at the point that contact reports are input if such client information has not been previosly entered. This might be a good procedure to set up in any case since this might naturally be the appropriate time at which to enter information on new potential clients. If this were done it would require additional effort on the part of the PDG staff to accumulate the appropriate information on the client in the required format for entry into the data base whenever he

prepares a contact report. While the information would have little or no value in the beginning, as more information is accumulated it will gain in value and importance to the Washington staff.

911

One of the more difficult aspects of formatting this data base is to incorporate structure of organizations into the file structure anticipating the multitude of ways in which the file might be used. This would be particularly valuable for government agencies where the structure is fairly complex. If this were considered important much design work would have to go into detailing a skeletal structure for this file. Thus no sample format is presented here. However it is noted that the current Form B Format used for commercial contact files at the Institute might be a suitable format for such a file.

912

A list of data elements that might be included in the Client File however is suggested below. The data organization is not presented and no assumption of completeness of the data elements is made.

913

(Name) 913a

(Organization/Agency) 913b

(Address) 913c

(Phone) 913d

(Position) 913e

(Job Title) 913f

(Project) 913g

(Supervisor) 913h

(Interactions) 913i

(Referred by) 913j

(Contact Reports) 913k

(Dialog) 913l

(Conferences) 913m

(Calendar Items) 913n

(Notes) 913o

4) PDG Travel Schedule 9m

This file is envisioned to be used to maintain a log of all trips scheduled by the PDG staff for the purpose of informing others of the purpose of the visit and the places to be visited or contacted. There are several compelling reasons for maintaining such a schedule that would be accessible to everyone concerned. It could eliminate unnecessary trips when the traveler can perform needed activities for someone else while on his trip. It also could prevent a possibly embarrassing situation in which knowledge of recent visits by other SRI Staff was lacking on the part of the SRI person involved in marketing activities, leaving him in the position of looking as though his potential client has more knowledge of SRI's activities that he does. 9m1

Often parcels, documents, promotional work or other marketing activity can be more effectively handled or communicated by a traveler than by mail or an additional trip and with little or no added inconvenience. 9m2

This file might be structured as follows: 9m3

(Destination)	Huntsville	9m3a
(Date Arriving)	Jan. 1, 1975	9m3b
(Date Departing)	Jan. 3, 1975	9m3c
(Traveler)	H. Bertrand	9m3d
(Agency/Office)	SRI-Huntsville	9m3e
(Purpose of Visit)	Discuss potential contract	9m3f

(Phone or Hotel)	666-777-8888 (8-5 local time) Sheraton Downtown eves.	9m3g
(OtherDestinations)	Yes, Oklahoma <Contact,103;1>	9m3h

Again the file will be updated by invoking a procedure which will prompt the user as to the data to be entered. Criteria applying to the contact report file also would apply here. The length of the entry under any item is essentially not limited. However such a limit could be applied, if it was thought to be necessary. The opposite problem seems more likely at this point and the suitability of entries could be effectively monitored by the personnel inputting the data. Deletions of entries following returns from trips should take place when a trip report is entered into the system, causing the parallel data in this travel schedule file to be removed. Thus any out of date trip schedules indicate that no trip report has been filed. Of course out of date scheduled items can be deleted by another method using a straight forward delete, but that method should not be normally used. Again pointers to other pertinent files could be embedded in the data so that one would merely need to do a jump to that item. 9m4

5) PDG Trip Reports 9n

Data in this file is similar to that contained in the Travel Schedule file with the exception that this file contains the results of the trip, references to additional contacts made and any action items resulting as an outcome of the trip. 9n1

A possible structure is presented below: 9n2

(Traveler)	F. Greehan	9n2a
(Site Visited)	Dallas	9n2b
(Agency/Office)	GSA	9n2c

(Date Arrived)	May 7, 1974	9n2d
(Date Departed)	May 27, 1974	9n2e
(Purpose)	To investigate possible computer security work	9n2f
(Time Spent with Contact)	6 working days	9n2g
(Contacts)	See Contact Reports: <Contacts,135>,<Contacts,136>,<Contacts,137>	9n2h
(Action Items)	Contact Don Parker at Menlo Park next Tues., May 31	9n2i
(Notes)	Work in the above area looks fairly promising, they have $50,000 that they want to spend soon and a large amount looks feasible	9n2j
(Further Meetings)	We have scheduled a telephone conference in two weeks on Mon, June 6, at 10 AM.	9n2k

6) PDG Activity Log 9o

This file is intended to maintain a log of activities of marketing staff. Again the proposed file structure is tenative and can be modified to more effectively meet the needs of the PDG staff. Typically entries would be made in this file recording any activities, meetings, actions, contacts, etc. pertinent to the interests of the group, in particular reflecting potential programs, interest areas, available funding for specific areas or any item that might lead to work that the Institute would possibly be interested in pursuing. 9o1

A proposed structure for this file is: 9o2

(Staff Member)	R. Dehn	9o2a
(Agency/Organization)	NSF	9o2b

(Program)	Rann	9o2c
(Contacts)	none	9o2d
(Action Items)	None	9o2e
(Potential Interests)	Good	9o2f
(Future Interests)	Yes	9o2g
(Trend Changes)	None	9o2h
(Comments)	None	9o2i
(Date)	March 4, 1973	9o2j

Updates to this file should consist mostly of the addition of new records. If reference backto old activity log entries is desired, then links to them should be placed in the new record, thus tying together related activity. These records should also be linked to contact reports and trip reports. 9o3

Implementation 9p

This function entails developing the appropriate procedures to provide prompting dialog for the various update functions and to handle data entry and file updating functions. 9p1

This function can only take place after the Data Base Definition phase is complete. 9p2

System Installation and Testing 9q

This takes place after all of the required hardware has been delivered and installed. The developed data bases are set up and the procedures are tested. 9q1

The operation's personnel will receive instruction on use of the system and be given access for gaining experience on it and developing facility with the pertinent features of the system. Experimental data bases will be set up and updated and all relevant operations on these data bases will be tested. When a fair degree of facility on the system is obtained, real data will be set up and a pilot operation will be conducted.

9q2

Training and Pilot Operation in Menlo Park

9r

Final Implementation following Equipment Installation in Washington

9s

After pilot operation is determined to be successful the workstation will be set up in the Washington office and the clerical staff trained on the system will return to Washington for full scale operation. The system should be allowed to be functional for some time before modifications or expansions are considered.

9s1

V. Statement of Work

10

There are several critical functions and milestones in the course of developing this marketing information management system.

10a

These constitute the statement of work and briefly are outlined below in the approximate order in which they should take place. The items are listed separately but are not to be construed as being necessarily independent or chronologically separate since in fact several of them would be done in parallel and/or with some functional task overlap.

10b

1) Generation of orders on any hardware needed by this system 10b1

2) Generation of a system design and approval of this design by PDG 10b2

3) Selection of personnel to run the system and their initial orientation 10b3

4) Development and implementation of the procedures 10b4

5) Pilot operation of the system by Operating Personnel at Menlo Park 10b5

6) Checkout of the hardware and communications facilities at the Washington office 10b6

7) Transfer of the working system to the Washington office 10b7

8) Installation and functional operation of the system in a working environment 10b8

9) Evaluation of the system by PDG and other persons using it. 10b9

An elaboration of each of these tasks was given in the previous section; the equipment costs, requisite manpower commitment and a estimated timetable are given here.

10c

Equipment Costs

10c1

	Purchase	Lease/mo.	
			10c2
TI Terminal	$2780	$145	10c3
ICP 3000-3 Cassette	$2000	$ 75	10c4
WATS Line	---	--	
			10c5

Manhours

	January			February			March				
	15	22	1	8	15	22	1	8	15	22	
Hardware											
Acquisition	--	--	--	--							
Personnel											
Selection	20										
Data Base											
Definition											
PDG	10	20	10								
ISE	20	30	20								
Procedures											
Development											
PDG		20	20								
ISE		30	30								
System											
Implementation											
ISE			30	30							
Installation											
+ Testing (M,P,)											

ISE	20	10							10w
Training and									10x
Pilot Operation									10y
PDG		60	60	60	60				10z
ISE		20	12	12	8				10a@
Hardware Inst,									10aa
+ Checkout Wash,						--	--	--	10ab
Operation									10ac
Initiation				--					10ad

Marketing System Descr, Draft

(J33815) 4-NOV-75 08:33;;;; Title: Author(s): Pat Whiting O'Keefe/PWO; Distribution: /GAS2([ACTION]) ; Sub-Collections: NIC; Clerk: PWO; Origin: < O'KEEFE, PDG-WASH,NLS;18, >, 9-MAY-75 09:50 PWO ;;;;####;

33815 Distribution
Glenn A, Sherwood,

FEED 4-NOV-75 10:20 33816

com report, 11/4 and 10/28

files sent are l10-guide for proofs and (bev)1fincomex and
(bev)2fincomex for proofs. --Sandy 1

FEED 4-NOV-75 10:20 33816

com report, 11/4 and 10/28

(J33816) 4-NOV-75 10:20;;;; Title: Author(s): Special Jhb Feedback/FEED; Distribution: /DMB([ACTION] dpcs notebook, please--sandy) &DPCS([INFO-ONLY]) FEED([INFO-ONLY]) ; Sub-Collections: SRI-ARC DPCS; Clerk: FEED;

33816 Distribution
Delorse M. Brooks, Documentation Production and Control System Interest Group , Special Jhb Feedback,

PKA 4-NOV-75 10:34 33817

test message

this is an example of adding a comment in the citation

PKA 4-NOV-75 10:34 33817

test message

this is a test of your initial file .. Will it set up the appropriate branches? 1

PKA 4-NOV-75 10:34 33817

test message

(J33817) 4-NOV-75 10:34;;;; Title: Author(s): Pamela K. Allen/PKA;
Distribution: /RDA([ACTION]) ; Sub-Collections: SRI-ARC; Clerk:
PKA;

33817 Distribution
Robert D. Archer,

PKA 4-NOV-75 10:37 33818

another test

another test to check the joournal mail. 1

PKA 4-NOV-75 10:37 33818

another test

(J33818) 4-NOV-75 10:37;;;; Title: Author(s): Pamela K. Allen/PKA;
Distribution: /RDA([INFO-ONLY]) PKA([INFO-ONLY]) ;
Sub-Collections: SRI-ARC; Clerk: PKA;

33818 Distribution
Robert D. Archer, Pamela K. Allen,

S, F,

These West coast trips are killing me, 1

s. F.

(J33819) 4-NOV-75 10:48;;;; Title: Author(s): Robert D. Archer/RDA; Distribution: /FGB([ACTION]) RDA([INFO-ONLY]) ; Sub-Collections: NIC; Clerk: RDA;

33819 Distribution
Frank G. Brignoli, Robert D. Archer,

DLS 4-NOV-75 11:17 33820

Comments on Sheppard's Draft Position Paper

Here are my comments and additions to the draft postion paper in (33776,). I have used your outline to record my comments, with an additional MISC catchall category at the end, so the statement numbers should match. I have a special interest in the items that have an impact on contractual arrangements, since I have to begin soon to draw up the statement of work for the next contract. 1

Incidently, Bob, several of the journal items I have received from you are untitled. Is this intentional, or an oversite. As you know, one of the Journal indicies is based on keyword in the title. Without a title, there is no way one can use that index to retrieve the item at a later date. 2

NLS 3

HELP SUBSYSTEM 3a

This might be expanded to include reference aids in general. The glossary looks like a helpful thing for those who have some sort of understanding of NLS and the environment in which it runs. The (userguides,locator,) is also helpful for people who want to study some portion of NLS in more detail. 3a1

Perhaps what is required is a follow up session by the training people on how to find and use the on-line and off line learning and reference aids. 3a1a

A specific problem that I have, is that I occasionally get the message "NLS internal error, string too long" in response to a typed question mark. I suspect that it is associated with the IMLAC, which has a screen width of 64 characters. I have not noticed this on the TI or Lineprocessor terminals. Has anyone else gotten this message? 3a2

BATCH 3b

This needs to be expanded to include the idea of the absentee user. That is the ability to fire up a job at a specified time, or when the group load average is under a specified level. The type of job should not be limited to those listed, for example JOURNAL delivery. We should be able to specify the job easily from NLS (a batch specification subsystem, language, etc.??). If TENEX run files are the only way we can do it, then there has to be some easy way to create them, that is less procedure oriented,..like command branches now in NLS. 3b1

COMPATABILITY WITH OTHER SYSTEMS 3c

There is a reasonable degree of compatibility now between

SNDMSG and JOURNAL if one uses the commands in the MESSAGE subsystem. We will have to be very specific in requesting nature and degree of compatability, perhaps what is needed is something less visible, like a setting in user options that says that all journal mail should be formatted in the SNDMSG format (or vice versa). 3c1

SCREEN REFRESH PROBLEM 3d

In my personal notes, I have indicated that Norton will assign someone to look into the screen refresh algorithm, explain it to us laypersons, and suggest changes that would lessen the user perceived refresh rate. I'm not sure that this got into the meeting notes. 3d1

TYMESHARE 4

In general, I think the KWAC would like to see some written statement of the duties and responsibilities of the TYMSHARE people. Something more specific than just "operate a PDP-10X facility". The questions of restoral time for archived files and links to operators are just symptoms of a general laxity on SRI's part in telling TYMSHARE what is expected of them as a minimum. 4a

JOURNAL 5

It is my understanding that the JOURNAL system operates across BBNB and OFFICE-1, and to a more limited (but not understood) degree at ISIC. Jim White and Dave Hopper (23144,) have written an extensive article on a Multihost Journal system, which shows great insight into problems and solutions associated with creating such a system. The problem seems to be one of monies to implement such a system. We had hoped that the NSW would be a vehicle for development of such a system, but there is too much controversy over the various message systems at this time to seriously consider it. 5a

The expidite feature might well be implemented under a group scheme, where the item would be delivered as soon as the group useage dropped below a certain level, rather than waiting for the whole system load to drop. 5b

USER SERVICES 6

USER STATISTICS / GROUP ALLOCATIONS 6a

Again we have to be specific on the data that we want to see. What specifically is inadequate with grpstat? What else other

than CPU, CON and % should be portrayed in the month end summary? 6a1

A wealth of statistics is available under the SUPERWATCH system. The user interface is not too clean as it now stands. Indications are that it is expensive to run (in terms of CPU cycles). Perhaps the KWAC should get a more detailed picture of SUPERWATCH and make a decision on whether it provides the type of data desired. 6a2

APPLICATIONS PROGRAMMER 6b

It was my understanding that people are now available for application programming. The question seems to be whether or not to include this as part of the overall unit cost or to seperate it out and have a prenegotiated rate for this persons use. This is an item with contractual implications. 6b1

TRAINING 6c

Some minimum level of training should be a part of the unit. More should be on a prenegotiated opetion basis. The question is really, what is the minimum? 6c1

COST STRUCTURE 6d

Although I have not heard from Norton, based on the conversations in the KWAC meeting I am going under the assumption that service will be sold on a unit basis, rather than a slot, where the minimum unit is 3% of the system delivered to the user (expandable in 1% increments). A first order approximation is that 3% equals a "slot". I you want better response time for your group, then you have to purchase additional increments. Only 75% of the system will be delivered to users, the other 25% will be used by system background processes. 6d1

The % should include all critical system resources, ie CPU cycles, disc pages and disc I/O channel capacity. The pie slice allocator will be the only guarantee that the user is getting what he paid for. Bud Pine is working on the allocator (as delivered by BBN) to assure that there is a close correspondance between what is being delivered and what the user feels he is entitled to. Bud has promised to document his findings and changes he has made to the allocator by the end of this year. 6d1a

The 3% would also include (as yet undefined) minimum level of user services such as training, documentation, feedback, bug

fixing and applications consultation. It would not include terminals, COM services, applications programming or special training in L-10, CML or user programming in general. These would be optional extras, with the price per manhour, training seminar, terminal, etc negotiated ahead of time. Additional 1% increments would not include any SRI support, just computer resources...(Ithink?). 6d2

EQUIPMENT 6e

No equipment is included with the unit. We (RADC procurement) is under increasing pressure to eliminate the purchace of equipment through SRI. It violates several regs and burns up R&D procurement time on items that should be bought through base or local procurement. Leasing of equipment through the RADC contract is impossible. I am now trying to purchase all the equipment that was initially intended for lease. My hope is that there is enough loose change lying around on the contract to do this, but I may have to ask some of you for more money if I can't make ends meet. 6e1

Exchange of Data Media keyboards will have to be worked out with SRI on an individual basis. Ours are working OK so far. 6e2

The principle problem I have with using the lineprocesor, after having spent 3 years on the IMLAC, is the inability to see the invisibles. This is particularily troublesome when constructing charts, tables etc. I would also like the ability (on its the IMLAC but not the lineprocessor) to flip to a one page view of messages that go into the TTY window. Helpful in programming, linking, and reviewing system messages that escape my detection. I would like to hear from SRI on what they think is involved in implementing these for the line processor. 6e3

DOCUMENTATION 6f

PERFORMANCE 6g

It seems that we are talking more about reliability than performance. The only measure we currently have of system reliability is % up or down time. Reliability of systems is typically measured in terms of Mean Time Between Failure (MTBF) and Mean Time To Repair (MTTR). One tries to maximize the first number and minimize the second. I feel that until we have some reasonably agreed upon measures of system reliability like MTBF & MTTR (perhaps one for prime time and one for total scheduled up time), or there will be endless and unproductive arguments on the reliability of the system. It is also

unreasonable to make comparisons with other systems until like data is collected on them. 6g1

There are further questions of what it means to operate in a degraded mode, ie a bank of core out, a disc drive down, a NCP that listens to some users but not others. 6g1a

For whatever measure of reliability we chose, the question of how it is measured and is it "believeable" arises. We currently have no choice but to rely on information gathered by SRI and TYMSHARE. Perhaps most importantly, the data should be reported to the KWAC community on a systematic basis, with some commentary on the nature of the problem and the fix. 6g2

TEMPORARY SLOT 6h

Since unit price includes disk space, disc accesses and people time, how do we handle the general problem of disposition of unused resources. There seem to be several choices: 6h1

Let it go to waste...the easiest one to implement, but somehow the hardest to swallow. 6h1a

Give it to ARC support people...This area needs more visibility. How are the resources now accounted for, that are consumed by ARC support of the Utility? Are they considered overhead? Do they fall in the same class as any other user group? Should this class of use be explicitly recognized in the contract? 6h1b

Give it to those who need it most...This apparently is the way it is now done. Demos seem to fall in this category. The receivers feel great, the givers feel cheated. It seems that the rule of "from each according to his ability to each according to his need" is not acceptable to most of the KWAC. 6h1c

Sell it on either a temporary or permenant basis...This poses contractual problems. We are talking about guarenteeing a user group a % of system resources with the implication that he can purchase more than he needs to assure good response time. How can we turn around and say that we are going to sell his unused time? It seems that the only way to do this is to sell time from a group who has no one logged in. Once someone is logged in even though he may be consuming only 1/100 his group's allocation, the unused time is not for sale. On the other hand, resources are clearly being wasted if you follow this rule to the

letter of the law. Looks like a compromise between the two extremes is needed. 6h1d

I would like to see the disc space allocations made on a group basis rather than on a directory basis. That is, one should be allowed to exceed his directory allocation for disc space, as long as his group's allocation was not exceeded. If the allocation of space directly by the architect were possible, this would also be great. 6h2

SELLING WINDFALL 6i

As evidenced by the above rambling, I need to understand windfall better. 6i1

MISC 7

While at the KWAC meeting, I brought up the idea of individual organizations adding to the Utility's resources. For example, suppose RADC were to purchase another 256K core, pay for mods to the Pager and pay for its installation on the utility. Would we be entitled as a group to whatever additional resources this freeded up? If the other groups benifited from this action, should they be charged? Should something like this be allowed at all? 7a

What about an option-to-buy in the next Utility contract? Since TYMSHARE is trying to write off the cost of the 10 as quickly as possible under the assumption that it will soon be outdated and worthless, it should be possible to purchase the facility at the end of the upcoming contract for 1/4 its original purchase price. RADC could conceiveable do this, move it in-house and run it at a lower cost than TYMSHARE. 7b

For those of us who have line printers at our sites, it would be nice to have the ability to send an output file to a print directory that would feed it out to the network at its own pace, while the user was allowed to go on about other business. 7c

Finally, I need some indication from all those who intend to use the RADC contract for Utility service. If you can give me rough estimates of how much you will be kicking in and any idea you have of extra services it sure would be appreciated. I've got to get started with the paperwork for the next contract. 7d

DLS 4-NOV-75 11:17 33820

Comments on Sheppard's Draft Position Paper

(J33820) 4-NOV-75 11:17;;;; Title: Author(s): Duane L. Stone/DLS; Distribution: /AID([ACTION]) RAM4([INFO-ONLY]) FJH([INFO-ONLY]) ; Sub-Collections: RADC AID; Clerk: DLS;

33820 Distribution

Sri User, Lawrence A. Crain, E. S. VonGehren, Glenn A. Sherwood, Frank G. Brignoli, Inez M. Mattiuz, Connie K. McLindon, David A. Potter, Terry H. Proch, Robert M. Sheppard, Duane L. Stone, Stanley M. (Stan) Taylor, Ronald P. Uhlig, Richard A. Metzger, Francis J. Hilbing,

RDA 4-NOV-75 14:05 33821

the third test

this is the third meessage to check your mailbox.. Hope you have a nice trip back to Washington. It was a pleasure to teach NLS to you. Hope you will use and enjoy it. Good luck Pamela 1

the third test

(J33821) 4-NOV-75 14:05;;;; Title: Author(s): Robert D. Archer/RDA;
Distribution: /RDA([INFO-ONLY]) ; Sub-Collections: NIC; Clerk: RDA;

33821 Distribution
Robert D. Archer,

KIRK 4-NOV-75 17:13 33822

Consciousness, capabilities, pencils, power, access, and augmentation

I'll bring the individual expositions of the class next monday. Mine is in <nic, kelley, is40-consciousness,>. Power corrupts. Access doesn't. What about augmentation? Do pencils corrupt? If so, do pencils with bricks tied to them exonerate? I think of augmentation as an increase. Augmenting intelligence is increasing conscious capabilities. Access is an easy direct measure of capabilities but it must include assimilation/processing/communication to be augmentation. These last things are not so easy to measure in units of controlled alternatives (capabilities). Power is the time rate of doing work. It is measured in watts or horsepower and is a completely separate notion from access/augmentation which can be measured in capabilities.

1

KIRK 4-NOV-75 17:13 33822

Consciousness, capabilities, pencils, power, access, and augmentation

(J33822) 4-NOV-75 17:13;;;; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /DVN([INFO-ONLY]) BEV([INFO-ONLY]) ;
Sub-Collections: SRI-ARC; Clerk: KIRK;

33822 Distribution
Dirk H. Van Nouhuys, Beverly Boli,

JHB 4-NOV-75 22:26 33823

re: HGL 26850,) Coordination, release and availability of DEX

Thanks for fixing DEX! In answer to your question, it looks like ARC-ADG should check out DEX at ISIC and see that it is moved to O-1 and BBNB. We can then announce its release at the same time we announce that the DEX Userguide is ready and being distributed. 1

JHB 4-NOV-75 22:26 33823

re: HGL 26850,) Coordination, release and availability of DEX

(J33823) 4-NOV-75 22:26;;;; Title: Author(s): James H. Bair/JHB; Distribution: /HGL([ACTION]) JMB([ACTION]) SRI-ARC([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk: JHB;

33823 Distribution

Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby, Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews, Harvey G. Lehtman, Jeanne M. Beck, Bonny Mosher, Israel A. Torres, Jan H. Kremers, Susan K. Ocken, Raphael Rom, David C. Smith, Buddie J. Pine, Andy Poggio, David L. Retz, Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Ann Weinberg, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler

DCE 5-NOV-75 09:09 33824

Re new estimates for moving NLS Backend

Referring to Elizabeth's note (26851,) about requiring of the order of 6 man years to move NLS Backend to a TOPS 10 operating system -- does this imply that we have been way under in our estimates for moving the Backend to ANY other operating system? 370, B6700, MULTICS, ... ?

1

DCE 5-NOV-75 09:09 33824

Re new estimates for moving NLS Backend

(J33824) 5-NOV-75 09:09;;;; Title: Author(s): Douglas C. Engelbart/DCE; Distribution: /RWW([ACTION]) EKM([ACTION]) SRI-ARC([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk: DCE;

33824 Distribution

Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby, Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews,
Richard W. Watson, Elizabeth K. Michael, Bonny Mosher, Israel A. Torres, Jan H. Kremers, Susan K. Ocken, Raphael Rom, David C. Smith, Buddie J. Pine, Andy Poggio, David L. Retz, Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Ann Weinberg, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel

DLS 5-NOV-75 14:07 33826

Dialog With Jim Kaubisch While at RADC

for the record

Dialog With Jim Kaubisch While at RADC

17-SEP-75 0810-PDT CARRIER: Kaubisch Dir
Distribution: FEEDBACK, stone
Received at: 17-SEP-75 08:10:41-PDT 1

Would like 200 more pages in the Kaubisch directory as soon as possible. Hopefully today or tomorrow? Would appreciate...thanks! 1a

Bobbie 1b

20-AUG-75 1459-PDT KAUBISCH: RETURN TO RADC
Distribution: STONE, kaubisch
Received at: 20-AUG-75 14:59:02-PDT 2

STONEY
COULD YOU TELL SAM THAT I WON'T BE BACK UNTIL MONDAY, WILL BE PRESSED TO FINISH ALL THE WORK HERE EVEN BY THEN, DONY PUTTING IN A LOT OF TIME AND CAUSING ME A LOT WORK OF WORK TOO, SPECIFICATION BENIFITTING AS A RESULT,
THANKS,
JIM
PS, HAVE BEEN HAVING A LOT OF LINE TROUBLE HERE LATELY MAKING USE OF THE NET PROBLEMATIC 2a

13-AUG-75 1606-PDT KAUBISCH: IT FEELS LONELY Distribution: STONE, kaubisch Received at: 13-AUG-75 16:06:59-PDT 3

STONEY, THROUGH A 10 CHAR/MIN TERMINAL AT THE END OF A LONG WIRE IT ALL FEELS A BIT UNREAL, WOT TANGLED UP IN THE TROUBLE ON THE NET LAST NIGHT, TOOK ABOUT 1/2 HOUR TO GET THAT MESSAGE TO YOU YESTERDAY, . . CONSIDERABLE IMPROVEMENT TODAY... TERMINAL STILL SOUNDS LIKE IT ISN'T SURE THERE'S ANYONE OUT THERE LISTENING, WILL TRY TO GET ON TODAY AROUND 3-4 PM YOUR TIME TO TRY A LINK BUT I DON'T PROMISE ANYTHING, MY FILES ARE PROBABLY OK, I UPDATED THEM BEFORE LEAVING, TAKE CARE,
JIM 3a

17-AUG-75 1059-PDT KAUBISCH: FLACK OVER USE OF LONDON TIP
Distribution: STONE, kaubisch Received at: 17-AUG-75 10:59:01-PDT 4

STONEY, LINKED TO RUSSELL TODAY TO GET HELP WITH "MSG" SUBSYSTEM, HE SEEMED UPSET THAT I SHOULD BE USING LONDON TIP, SAID HE WOULD TALK TO KAHN ABOUT IT TOMMORROW, JUST WANTED YOU TO BE PREWARNED IN CASE ANY OF THIS GETS BACK TO YOU, WANTED TO SEND COPY OF THIS MESSAGE TO KIRSTEIN, BUT DIDN'T KNOW THE SYNTAX, PLEASE LET ME KNOW WHAT COMES OF THIS, THANKS,
JIM 4a

12-AUG-75 1647-PDT KAUBISCH: BELFAST ACCESS TO LONDON TIP

Dialog With Jim Kaubisch While at RADC

Distribution: STONE, kaubisch
Received at: 12-AUG-75 16:47:18-PDT 5

DUANE,
SOME RUNNING AROUND TO GET TERMINAL, BUT AM NOW ON. NO TROUBLE GETTING PHONE NUMBER ETC. FROM KIRSTEIN WILL LOG ON DAILY FOR MAIL

JIM KAUBISCH 5a

8-AUG-75 1057-PDT STONE: Access for Kaubisch to London TIP
Distribution: KIRSTEIN AT ISI, Kaubisch, nelson, stone
Received at: 8-AUG-75 10:57:05-PDT 6

Sylvia
Mr. Kaubisch left for Belfast on Thursday, 7 Aug and will be there for
2 weeks. He may be there again the last two weeks in September.
His mailing address is:
W. H. Kaubisch
Dept of Computer Science
Queens University of Belfast
Belfast BT7 1NN, N. Ireland
I'd appreciate it if you would forward the necessary information to
him. Thanks for your help.
Regards
Duane Stone 6a

8-AUG-75 0919-PDT KIRSTEIN at SRI-AI: Permission for Kaubisch to Use LondonTip Distribution: STONE AT OFFICE-1, kirstein at isi
Received at: 8-AUG-75 09:13:01-PDT 7

attn ptk 7a

We are pleased to tell you that Kahn has given his permission for Mr. Kaubisch to access Arpanet from Belfast via ucl Tip. Because we have to exercise strict control over use of our Tip, we have set up a monitoring program that requires Users to givea a password in the form of an identifier before network access is allowed. If you will tell me when Mr. Kaubisch expects to start use from Belfast and how long that use will last, I will arrange for an identifier to be entered for him. If he expects to leave for Belfast in the near future perhaps I could have his Belfast address to send the necessary information to. Regards, Sylvia Kenney (liaison for London-Tip) (On behalf of Prof. Peter Kirstein) 7b

5-AUG-75 0718-PDT STONE: Permission for Kaubisch to use London TIP

Dialog With Jim Kaubisch While at RADC

Distribution: KIRSTEIN AT USC-ISI, KAHN AT USC-ISI, kaubisch, stone
Received at: 5-AUG-75 07:18:57-PDT 8

Mr. Kaubisch is a US citizen...temporarily in Belfast. He will be leaving for Belfast on Thursday, 7 Aug. If permission, telephone numbers, passwords, etc could be arranged before then, it would be appreciated. If not then please mail to: W. H. Kaubisch Dept of Computer Science Queens University of Belfast Belfast BT7 1NN, N. Ireland As backup, you might send a message to me,.STONE@OFFICE-1. Thanks for your help.

Regards
Duane Stone 8a

Sylvia
Mr. Kaubisch left for Belfast on Thursday, 7 Aug and will be there for 2 weeks. He may be there again the last two weeks in September.
His mailing address is:
W. H. Kaubisch
Dept of Computer Science
Queens University of Belfast
Belfast BT7 1NN, N. Ireland
I'd appreciate it if you would forward the necessary information to him. Thanks for your help.

Regards
Duane Stone 8b

5-AUG-75 0144-PDT KIRSTEIN at USC-ISI: Permission for kaubisch to use London TIP Distribution: STONE AT OFFICE-1, kirstein, kahn
Received at: 5-AUG-75 01:44:22-PDT 9

attn:ptk,sk 9a

I am not clear whether Mr Kaubisch is an American temporalily in Belfast, or whether he is a UK resident currently wworking for RADC. From your not e, it looks as if he is the former. In that case I have no objection to his accessing Office-1 via the UCL TIP, but official permission must also be obtained from Kahn at ARPA (send a message to kahn at ISI). When kahn has given me his permission, I will furnish Kaubisch with the necessary telephone numbers, pass- words etc. 9b

If Kaubisch is a UK resident, the procedure is slightly different, so please advise me as to his status. 9c

Regards Peter Kirstein 9d

4-AUG-75 1311-PDT STONE: Access to London TIP for Jim Kaubisch

Dialog With Jim Kaubisch While at RADC

Distribution: KIRSTEIN AT USC-ISI, Kaubisch, stone Received at:
4-AUG-75 13:11:29-PDT 10

Mr. Kaubishc is working for the Rome Air Development Center (RADC),,,part of the US Air on a project to update the JOVIAL language. He is using host #43 (office-1) to prepare, edit and eventually publish a language specification document. Mr. Kaubisch will be traveling to Belfast and is interested in gaining access to the LONDON TIP from there. He would be using the ARPANET to get to Office-1, to read mail, link to others at office-1, editing of files, etc. Sjince he is working on a DOD project, we would appreciate it if you could send us (via message to STONE@OFFICE-1) a london TIP number he can use while in Belfast. Thanks for your cooperation

Regards,

Duane Stone 10a

16-JUL-75 1324-PDT CARRIER: New Directory
Distribution: FEEDBACK, carrier, stone
Received at: 16-JUL-75 13:24:56-PDT 11

Would like to set up a directory for: 11a

NAME: Wolf-Hasso Kaubisch
PASSWORD: WHK
IDENT: WK
PHONE: Area Code 315-330-7010
DSK: 300 pages 11b

I have already checked with D. Stone and have his blessing - if you need more info please contact myself or Stone,,,thanks 11c

Bobbie 11d

DLS 5-NOV-75 14:07 33826

Dialog With Jim Kaubisch While at RADC

(J33826) 5-NOV-75 14:07;;;; Title: Author(s): Duane L. Stone/DLS; Distribution: /WK4([INFO-ONLY]) ; Sub-Collections: RADC; Clerk: DLS;

33826 Distribution
Wolf-Hasso Kaubisch,

KIRK 5-NOV-75 19:08 33827

Hellnotes in Helpd

Sounds fine to me. The reason I didn't understand why we didn't put the do's and dones under tasks was because I thought of the names associated with files as just overall responsibility and not necessarily the actual doer. Also to save having twoessentially duplicate lists of documents. But if you are volunteering to maintain them,,, who am I to object? Putting it in helpd will make it nice for me because I wont have to type any other directory names after connecting to xhelp. 1

KIRK 5-NOV-75 19:08 33827

Hellnotes in Helpd

(J33827) 5-NOV-75 19:08;;;; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /BEV([INFO-ONLY]) DVN([INFO-ONLY]) ;
Sub-Collections: SRI-ARC; Clerk: KIRK;

33827 Distribution
Beverly Boli, Dirk H. Van Nouhuys,

KIRK 5-NOV-75 19:35 33828

Steps for making single source files for both help and hard copy documents

Yes, I will start on steps 1 and 2 of 26852 this weekend, I'll see how far I can get on step 2 sunday and then present my conclusions monday, See you then. 1

KIRK 5-NOV-75 19:35 33828

Steps for making single source files for both help and hard copy documents

(J33828) 5-NOV-75 19:35;;;; Title: Author(s): Kirk E. Kelley/KIRK; Distribution: /BEV([INFO-ONLY]) DVN([INFO-ONLY]) POOH([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk: KIRK;

33828 Distribution
Beverly Boli, Dirk H. Van Nouhuys, Ann Weinberg,

ESV 5-NOV-75 19:41 33829

informal communications etc. paper

Here are a couple of thoughts we might want to work in to our paper.
They do not fit together, but belong at the two ends of the paper.
Ed

informal communications in computer networks 1

The environment in which we were to use the system is comparable to the headquarters of a very large and widely dispersed corporation. Our mode of operation had to be significant in increased management effictiveness. The problems were real; the operation had to pay off in the "corporate" day-to-day business. We could not afford to involve the entire organization in a "research project."

With these constraints in mind, our approach was cautious. We chose, for our initial effort, a small group of managers who by profession should be ameniable to new technologies - the top managers from within the directorate of management information systems. 1a

The very nature of our initial interest has, to date, placed emphasis on simple message communication, and it is in this that we have "proven" the significance of computer mediated message systems to the management of our organization. But having gotten involved this far we are "bitten by the bug" which we see leading towards the fully automated office. We have, this far, had limited success (by this we mean little time has been spent) with text generating, manipulating, and output production. We feel, however, that this is only reflecting a relative demend for "services" by our group in the headquarters environment - leaning more towards information gathering and desimination than document preparation. We speculate that broader use by the more operationally oriented staff throughout the subordinate organizations will provide the impetus and the information base structure which will lead us to a wider use of the available office automation tools. 1b

ESV 5-NOV-75 19:41 33829

informal communications etc. paper

(J33829) 5-NOV-75 19:41;;;; Title: Author(s): E. S. VonGehren/ESV; Distribution: /RPU([ACTION]) SMM2([ACTION]) ; Sub-Collections: NIC; Clerk: ESV;

33829 Distribution
Ronald P. Uhlig, Shirley M. Martin,

JHB 5-NOV-75 20:52 33830

re 33810, your item for action

Yea, really!! Thanks for the pointer (I'm alos a member of DOCPLAN but didnt notice that.) I'm glad to see Dirk got it. 1

JHB 5-NOV-75 20:52 33830

re 33810, your item for action

(J33830) 5-NOV-75 20:52;;;; Title: Author(s): James H. Bair/JHB;
Distribution: /RLL([ACTION]) ; Sub-Collections: SRI-ARC; Clerk:
JHB;

33830 Distribution
Robert N. Lieberman,

DCE 5-NOV-75 22:21 33831

Possibility of RADC sponsoring special software-team experimentation AKW

Special attention and a higher level of tools support for selected teams

DCE 5-NOV-75 22:21 33831

Possibility of RADC sponsoring special software-team AKW experimentation

I've had several discussions with John McNamara of RADC, first at NCC 75 Annaheim and again at RADC 22-23 Oct (when RWW and I visited), in which I've advocated an experimental approach to augmenting software engineers that is compatible with the basic NSW Program, but is complementary to its current approach of considering very widespread tool support at some level justifiable for mass application -- my pitch being to have parallel experiments going where a more intensive level of support be experimented with for selected teams. 1

The basic setup would be: 2

Select one ore more teams of modest size, each tackling a real-world software job of suitable size and duration, and served by an architect qualified to experiment sensibly with the form of their workshop and with the organization and methodology of the team. 2a

Assumedly the team would be supported in their work at a "normal" rate by the customer who wanted the end product. 2b

RADC would provide extra support to pay the experimental costs over and above what is reasonable for the basic job. 2c

Don't pre-judge the tool-support level -- i.e. ton't limit support to what could be provided every Air Force programmer with today's assessment of the payoff in mind. Try calibrating the value derived from a high level of support. 2c1

(It is clear that if there is promise of significant productivity increase, there are system jobs where a very high level of support could be cost justified.) 2c2

ARC would support the architect, consistent with our role as specialists in workshops, funded by RADC as part of the experimental costs. 2d

This would probably be a 4-way arrangement: The team's organization (including architect), Project customer, RADC, and ARC. 3

Once we learned how to get something like that going for one team, it would be valuable to find more teams to do similar experiments with our AKW System; plus other experiments with other teams that would use other approaches to their team workshops. Also, other sponsors than RADC might be interested in supporting this sort of experiment. 4

I've also made the pitch that a special case of such a team that should be given strong consideration one of these days is the set of software people at ARC working on our AKW software systems. This

would involve special support, over and above that for the bulk of the actual software work going on, for further development of tools, languages, etc, plus significant improvement in the amount and responsiveness of computer support, plus developing and shaking down improved organization and method for our teams. 5

McNamara has money now for investing in software-productivity improvement. He is interested enough in the idea to encourage scouting for suitable teams. He also has good contacts in the hierarchy of Air Force systems-procurement people, and reports that the interest in pushing for improvement is very high and very clear. In all, he seems to be in a good position to develop the above approach -- supporting the exploration and trial shakedown with an initial team, and developing interest in wider support within the Air Force if the approach looks feasible. 6

Mac outlined for RWW and me the way the Air Force sets up a System Project Officer (SPO), with a core staff, who manages the whole project. There is good possibility that the SPO and his staff could benefit by AKW support, and also that collaborative dialogue between the SPO and the contractors would be an important possiblity. 7

They had already been in touch with Dr. Barry Boehm of TRW -- Barry would like to try using NSW tools on a project where TRW is software sub-contractor to the prime contractor, General Electric. We agreed that I should contact Barry to see what he thought of the idea. 8

DCE 5-NOV-75 22:21 33831

Possibility of RADC sponsoring special software-team AKW
experimentation

(J33831) 5-NOV-75 22:21;;;; Title: Author(s): Douglas C.
Engelbart/DCE; Distribution: /SRI-ARC([INFO-ONLY]) ;
Sub-Collections: SRI-ARC; Clerk: DCE;

33831 Distribution

James E. (Jim) White, Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby, Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews,
Bonny Mosher, Israel A. Torres, Jan H. Kremers, Susan K. Ocken, Raphael Rom, David C. Smith, Buddie J. Pine, Andy Poggio, David L. Retz, Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Ann Weinberg, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer

KPH 6-NOV-75 05:51 33832

Status of B4700/PDP-11

For your information, 1

Vic and Hamrick tried again to do their bits Tues PM to no avail, Even though DEC had made changes necessary to bring 11 up to ECO5, symptoms were still the same, 2

DEC Huntsville contacted Tues PM, they then conferred with DQ11 experts at Maynard Wed AM. Plan is now for Ray MacDonald, DEC Engr to come down to Gunter on Monday, Nov 10, to verify all ECO's, using a telephone patch to the experts at Maynard to help as required, 3

Consequently, Vic and Hamrick will have to make another trip, looks like. Larry will try to verify that the hardware is indeed working before we ask them to come back. He has received added instructions on the programs for both the 4700 and the 11, 4

Unfortunately, barring a minor miracle, this rules out the use of the BBLC for the demo on 18th. I understand MCA is prepared for this contingency, 5

Ray Cook, Area FE Supvr, and the Regional Mgr from Atlanta will be at Gunter 7Nov to discuss among other things, a maint agreement, and to introduce the resident Montgomery FE. Those two events should make life a little easier. Too bad they didn't take place 6 months ago, 6

We expect to have the final agenda on the air 7Nov, 7

Ken, 8

Status of B4700/PDP-11

(J33832) 6-NOV-75 05:51;;;; Title: Author(s): Kenneth P. Hearn/KPH;
Distribution: /PCW([ACTION]) WEC([ACTION]) REM([ACTION])
LAC([INFO-ONLY]) KPH([INFO-ONLY]) MAS([INFO-ONLY]) MAW([
INFO-ONLY]) GEH([INFO-ONLY]) ; Sub-Collections: NIC; Clerk: KPH;
Origin: < HEARN, NOTE.NLS;1, >, 6-NOV-75 05:06 KPH ;;;;####;

33832 Distribution
Peter C. Waal, William E. Carlson, Robert E. Millstein, Lawrence A. Crain, Kenneth P. Hearn, Mildred A. Sisko, Mike A. Wingfield, Gary E. Hignett,

DCE 6-NOV-75 08:09 33833

Visit planned by Barry Boehm of TRW on 25 Nov 75

Following up on discussions with John McNamara of RADC (see "Possibility of RADC sponsoring special software-team AKW experimentation" -- 33831,8), I called Barry yesterday. He had already been alerted by Mac. As mentioned in the above memo, Barry had independently shown interest in the idea of the "software team experiment" using NSW, and seemed to have also decided that NLS is a prime candidate for a support system. He says that TRW is strong in their support of improving software productivity. And yes, the topic "... is very interesting for us ...". 1

The project they have in mind would involve coding in JOVIAL, for a UNIVAC 1110. They will be getting an 1110 on their site for development work -- doesn't know yet whether it could be connected to the Net. But apparently there are important modules that could be developed on one of the current Net hosts where JOVIAL is available. 2

I mentioned the AKW Seminar week after next, as a possibility for one or two of their staff to get a good introduction. He said he'd prefer instead to bring a couple of them by for a day, as an initial step. We settled on Tuesday, 25 Nov. He'll confirm. 3

Barry visited ARC, at least once, for a meeting of the early NSW talks (or late Automatic (rogramming). He worked for RAND then. He has had a lot of experience in the big system scene, and has particiapted in studies of the problems in achieving productivity. He has an excellent background for being a team architect. 4

These software-team experiments would involve both our Applications and Development groups, so I'd like for Barry and his colleagues to be exposed to people and activities of both groups. I'll be talking to Dick and Jim about the day's arrangements. It is clear that they should get a good picture of what value now can be derived, and what the future prospects are, for actual software production as well as for documentaion and management. 5

Barry mentioned wanting to assess "feasibility and costing for the experiment." 6

DCE 6-NOV-75 08:09 33833

Visit planned by Barry Boehm of TRW on 25 Nov 75

(J33833) 6-NOV-75 08:09;;;; Title: Author(s): Douglas C. Engelbart/DCE; Distribution: /SRI-ARC([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk: DCE;

33833 Distribution

James E. (Jim) White, Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby, Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews,
Bonny Mosher, Israel A. Torres, Jan H. Kremers, Susan K. Ocken, Raphael Rom, David C. Smith, Buddie J. Pine, Andy Poggio, David L. Retz, Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Ann Weinberg, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer

Test of Sendmail

Contradictions have been alledged in our description of the elephant. 1

We have used impartial expert consultants to provide us with said description. They have all been blind since birth and have never previously known of elephants. We are confident that they have provided truly impartial descriptions -- not biased in any way by the mere appearance of the elephant. 2

Test of Sendmail

(J33835) 6-NOV-75 11:16;;;; Title: Author(s): Elizabeth F. Finney/EFF; Distribution: /EFF([ACTION]) EFF([INFO-ONLY]) ; Sub-Collections: NIC; Clerk: EFF; Origin: < FINNEY, MEMO.NLS;2, >, 30-OCT-75 14:52 EFF ;;;;####;

33835 Distribution
Elizabeth F. Finney, Elizabeth F. Finney,