

trip report, ETS and Ft. Monmouth

ETS (2 mandays) Sept. 8-9

1. Persons (users or not) contacted [Use upper case if they have a directory]

Blanche Mark (Statistical Analysis), Barbara PITCHER (Statistical Analysis), Greta Brown (GRE Programs), Bob ALTMAN (GRE Programs), Bill Nemceff (Educational Studies), Ellie Clemson (Opportunities for Women), Donna Penman (Law Programs), Marylou Panacek (ERIC),

2. COURSE: (Basic and Second Course Training)

Everyone was present for Monday's session; This was the first NLS exposure for all those in the class except Bill Nemceff who had previously taken Basic and Second Course training. He had not used NLS however since taking these courses and attended for the review. Bob had received some basic instruction the prior week by Dave Potter,

We completed the entire Basic Course on Monday and we reviewed special procedures for BBNB users,

On Tuesday, the Second Course material was presented. Marylou Panacek was unable to attend and Bob Altman was in and out throughout the day,

4. APPLICATION (3 slots)

NLS is currently being used at ETS for document production and correspondence, as an information management and retrieval tool. The specific current applications include use in maintaining bibliographic data and as an aid in developing questionnaires, rating scales, and other instruments,

Blanche Mark and Barbara Pitcher in Statistical Analysis will be using NLS on an experimental basis over the next few months. This group runs validity studies on various ETS designed tests. They periodically send out these studies to schools and colleges and anticipate using NLS in preparing such studies. Greta Brown and Bob Altman (both from GRE Programs) plan on using NLS for intraoffice communication and for proposal writing. Bill Nemceff works directly for Dave Potter and needs a general understanding of the system to help with some of his work as architect. Ellie Clemson in Opportunities for Women is working with Abby Harris on a bibliographic data base document. Donna Penman in Law Programs will be using NLS for minute writing and report drafts,

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5. ISSUES:

Dave Potter was extremely helpful during my visit there. He appears to be going out of his way to help other ETS/NLS users.

Dave has recently purchased a new Termicette terminal which prints nicely on letterhead or computer paper. In his continuing efforts to aid NLS users, he has volunteered to print out any NLS documentation for ETS users on his own terminal.

He seemed to think that some people at ETS would soon need Third Course training.

Glossaries and Sample Sessions were requested by the new users.

Ft. Monmouth (2 mandays) Sept. 10-11

1. Persons (users or not) contacted [Use upper case if they have a directory]

Tom DAMES, Steve Austin, both from Ft. Monmouth and Dave GROBSTEN (Commander of Piccattiny Arsenal)

2. COURSE: (Basic and Second Course Training)

Monday was spent covering the Basic Course with the exception of the addressing section. Mr. Dames was forced to leave late in the afternoon. Steve and Dave remained so we could cover ways of sending edited files through sendmessage.

Tuesday we covered the Second Course in its entirety.

3. ASSISTANCE (other than formal course):

After having completed the Basic Course on Monday, Steve and Dave remained so we could cover ways of sending edited files through sendmessage. We covered sendmessage using control b, and Dean Meyer's message program which now accepts both idents and directory names and is compatible with MSG.

4. APPLICATION (3 slots)

The three men attending the class were the first of the AMC clients to receive any NLS training. They indicated that their on-line activity would be limited almost entirely (at least initially) to sendmessage and MSG. Their use of these programs however should be substantial.

trip report, ETS and Ft. Monmouth

5. ISSUES:

2e

All three men appeared to appreciate some of Sendmail's capabilities, but felt it was at this time impractical for the AMC group due to the very limited exposure their personnel have had to NLS.

2e1

Dave Grobstein was interested in knowing what Jim Norton had decided concerning XED. Grobstein and Dames both seem to think that sendmessage and a simple text editing system like XED would best fit their needs.

2e2

The AMC people were particularly concerned about file security. We discussed file protection, showing and changing protection in both NLS and in TENEX, and the relationship between the two.

2e3

Subsequently we spent a good deal of time using Help. Dave Grobstein felt it was particularly annoying when choosing a number from a menu item explanation list, seeing it print out, but then being unable to immediately select another item number from the same menu list. Dave Potter at ETS also expressed concern over this limitation.

2e4

PAW2 22-SEP-75 11:40 26523

trip report,ETS and Ft. Monmouth

(J26523) 22-SEP-75 11:40;;; Title: Author(s): Priscilla A.
Wold/PAW2; Distribution: /JHB([INFO-ONLY]) ; Sub=Collections;
SRI=ARC; Clerk: PAW2;

26523 Distribution
James H. Bair,

New Action at G E Neuclear

Elizabeth phoned me just before she left for vacation to report that she had learned that GE Neuclear of San Jose had issued an RFP for a computer-based publications system in house. Her informant judged that \$2 million worth of systems work for installation exclusive of \$1.5 million dollars worth of hardware was appropriate and that NLS was very well suited to the requirements. The bidders must commit themselves to bid by October 1. I will try to get a hold of an RFP today. If it confirms what she learned, it is obviously an important opportunity for both ISG and ARC.

1

New Action at G E Neuclear

(J26524) 22-SEP-75 11:55;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /DCE([ACTION]) JCN([ACTION]) RWW([ACTION])
NRN([ACTION]) DRB([ACTION]) KLM([ACTION] docplan
notebook please) DOCPLAN([INFO-ONLY]) ; Sub-Collections: SRI-ARC
DOCPLAN; Clerk: DVN;

26524 Distribution

Douglas C. Engelbart, James C. Norton, Richard W. Watson, Norman R. Nielsen, David R. Brown, Kathey L. Mabrey, 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 Nieuhuys,

Course Report for DAV,SKO,ROM

SRI=APP (3 hours for me = SGR, 1 manday=paw2)

1

I went through the first half of the Basic Course with Dave on the morning of September 4 and completed the session that same afternoon. Dave had read through alot of the NLS documentation and knew TENEX well so the course went rapidly and smoothly. I gave Dave the Second Course documentation which he read over on his own. Apparently he felt secure enough about the material covered and felt only the need for a second course review session with Susan,

1a

1. Persons (users or not) contacted [use uppercase if they have a directory]

1b

David Smith (DAVSMITH), a new ARC=DEV programmer

1b1

2. COURSE (conducted by PAW2):

1c

3. ASSISTANCE (other than formal course; conducted by SGR):

1d

I spent two hours with David (Monday the 8th) answering questions from the Second and Third Courses. We reviewed links and plex, show record, show file status and the locator.

1d1

One hour was spent Tuesday covering the Tenex interrogate command, a brief look at msg, the message program, process branches, content analyzer, and protection.

1d2

4. APPLICATION (# slots)

1e

5. ISSUES:

1f

Client (2 mandays)

2

1. Persons (users or not) contacted [use uppercase if they have a directory]

2a

Raphael ROM, and Susan OCKEN

2a1

2. COURSE:

2b

Training was conducted on Tuesday Sept, 16th and again on Thursday the 18th.

2b1

On Tuesday the Basic Course was covered in its entirety. Raphael knew the TENEX material so Susan and I went over it alone at the end of the session.

2b1a

Thursday morning the session resumed with the introduction

Course Report for DAV,SKO,ROM

of the second course. We concluded the morning session with a discussion of links. Susan was unable to attend that afternoon so Raphael and I completed the second course alone.

2b1b

Friday afternoon I covered the later half of the second course with Susan.

2b1c

3. ASSISTANCE (other than formal course):

2c

I plan on meeting with both Susan and Raphael sometime next week to review the course, answer questions, and to cover some new material that might be useful to them soon such as the locator, protection, the message program, a look at MSG etc.

2c1

4. APPLICATION (# slots) Both are new ARC-DEV programmers

2d

5. ISSUES:

2e

Raphael, Jeanne Beck, and I had a long discussion of links/addresses. In summing it up Raphael's suggestion was to teach links and addresses as being essentially the same thing. He thought that the distinction we were trying to make was confusing particularly to a new user.

2e1

Course Report for DAV,SKO,ROM

(J26525) 22-SEP-75 12:16;;; Title: Author(s): Priscilla A.
Wold/PAW2; Distribution: /JCN([INFO-ONLY]) JHB([INFO-ONLY]) US(
[INFO-ONLY]) ; Sub-Collections: SRI-ARC US; Clerk: PAW2;

26525 Distribution

James C. Norton, James H. Bair, Susan Gail Roetter, Priscilla A.
Wold, Jeanne M. Beck, Pamela K. Allen, Rita Hysmith, Sandy L.
Johnson,

WP report interest

Yes Please route to me; I am interested. Thanks Rob

1

WP report interest

(J26526) 22-SEP-75 13:08;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /SGR([ACTION]) ; Sub-Collections:
SRI=ARC; Clerk: RLL;

26526 Distribution
Susan Gail Roetter,

USER SERVICES WEEKLY REPORT for Week of Sept, 8-12

USER SERVICES WEEKLY REPORT for Week of Sept, 8-12:

1

from JMB

1a

I spent most of my time working on the revision of the Lineprocessor Users Guide, quite a bit of it involved with checking out for whom various copy printers and the LPPRINT program would work, and tracking down similar information about Lineprocessors. I also worked out how I am going to revise the DEX primer for the ICP; the software for this is supposed to be changed back to what it used to be.

1a1

I spent three hours training Mark Michael (see course report with Susan) and a lot of time dealing with mail this week,

1a2

from SGR

1b

I spent 2 hours linked to Sgt. Crabtree Monday while explaining how to use his process branch (problems he might encounter, letting him try it, etc.).

1b1

Three hours were spent with David Smith (a new ARC programmer) - see joint course report with Priscilla for details.

1b2

Eleven hours were spent training Mark Michael - see joint course report with Jeanne for details.

1b3

All but one hour Wednesday was sick leave.

1b4

The rest of the week was spent writing the reports on the AKW Seminar training, and the training for NSW people last week. Also time was spent organizing the trip to the Word Processing Symposium next week and the hotel reservations for the KWAC meeting. I also answered a lot of feedback questions, scheduled a week for an NSA programmer out here (week of Sept. 29) and other miscellaneous stuff.

1b5

from RH

1c

Have been going full blast on the Budget review. (All the departments are reporting their data in three separate stages with new drafts all the time). This has been taking up a great deal of my time. I have also been spending a great deal of my time with Fred Edwards since he has taken a personal interest in this whole project. He also has been entering most of his data himself and is becoming a very good NLS user.

1c1

I gave Hilda a little scenario for entering data, editing, printing, etc, in NLS which she was really pleased with.

USER SERVICES WEEKLY REPORT for Week of Sept. 8-12

Apparently Col. Russell wants her to keep track of all his work, appointments, etc. in NLS. Col. Russell is also talking about moving eother display into Hilda's and Kathy Carpenter's area for their use so they won't have to leave their area to work which has always been a hinderance (and TNLS has been difficult for Hilda).

1c2

We moved the display that was on the 6th floor into MIS since we have more users that need it immediately on the eight floor.

1c3

This was Clements last week and I moved his VELA file into Dr. Romney's Directory (he is in charge of NMRD). He has expressed an interest in it and wants me to go over the data with him sometime in the near future.

1c4

I also spent more time with Bangert showing him more NLS commands. I have really been amazed at how ignorant the people that we had thought of as the good users here at ARPA are. Granted Connie never uses NLS, but she didn't even realize that you could use Control A and Control W. Edwards didn't understand structure at all, Bangert didn't know about +e or how to move statements around. When Bill Bangert wants to move statements around he creates a blank statement then copies the text he wants to move into the blank statement and then goes back and deletes what he copied. It is unbelievable. It is no wonder the MRAO's have never gotten off the ground. They are much too complicated (even though they appear easy) because these people here at ARPA have so little knowledge of what NLS can do. I had no idea how bad it was until two weeks ago, it has definitely changed my approach.

1c5

I saw Doug only briefly and he mentioned the fact that Hollister has expressed an interest in taking me to various clients in the WDC area to give demonstrations of NLS. I also made arrangements to go to AMC next week to give the first and second courses and I also had to pack my things for the move to the second floor over the week-end. (We really have a nice office in Washington now). Congressman Fisher (of Northern Virginia) visited the WDC office on Friday for which I had to write up a little paper about what kind of research our group does. I also left him with the following documentation: The Augmented Knowledge Workshop, Coordinated Information Services, for a Mission-Oriented Community and SRI Investments in Tomorrow.

1c6

from PKA

1d

Spent all week doing Feedback. This really is a full time job. Did manage to catch up on reading my mail and organizing that.

USER SERVICES WEEKLY REPORT for Week of Sept. 8-12

I finished my course report for my AMC trip and journalized.
Filled in a weekly report for the second time (aug4-8) and
journalized.

1d1

from PAW2== training trip to East Coast, see trip report

1e

USER SERVICES WEEKLY REPORT for Week of Sept, 8-12

(J26527) 22-SEP-75 13:31;;; Title: Author(s): Susan Gail Roetter,
Jeanne M. Beck, Pamela K. Allen, Priscilla A. Wold, Rita Hysmith/SGR JMB
PKA PAW2 RH; Distribution: /US([INFO-ONLY]) JHB([INFO-ONLY])
JCN([INFO-ONLY]) ; Sub-Collections: SRI-ARC US; Clerk: SGR;

26527 Distribution

Susan Gail Roetter, Priscilla A. Wold, Jeanne M. Beck, Pamela K. Allen, Rita Hysmith, Sandy L. Johnson, James H. Bair, James C. Norton,

CONTACT: AFAA, Mel Draper on 16 Sept 75, Status of NLS at AFAA

(AFAA) Contact report 26528	1
(DATE) 16 Sept 75	1a
(BY) Lieberman	1b
(ATTENDEES) Full name of organization, address, phone number as substatements	1c
Mel Draper - AFAA	1c1
Robert Lieberman - SRI-ARC	1c2
(MEDIUM) PHONE	1d
(WHERE) Menlo Park, CA and San Bernardino, CA	1e
(ACTION=ITEMS)	1f
Actions taken, to be taken, etc., dated	1f1
(DISTRIBUTION) ARC=LOG DCE JCN RLL	1g
(REFERENCES)	1h
(DOCUMENTS) Hard copy given and received	1i
(GIVEN) Date and documents given	1i1
(RECEIVED) Date and documents received	1i2
(REMARKS)	1j
Mel called to inform us of some activities that are going on at AFAA that relate to NLS.	1j1
They are considering putting a PDP-10 in at Norton AFB. It is one that has been declared surplus by the Navy. Thus he wanted to know what was necessary to make it run NLS, does NLS run on any other machines, and do we have any objections to having NLS installed on an in-house machine.	1j2
I answered the questions and told our desire to have it run on other machines.	1j2a
Another question concerned the capabilities of PDP-10. Can it act as a communication interface to IBM/370 from several kinds of terminals. Here I said I thought so but also thought that	

CONTACT: AFAA, Mel Draper on 16 Sept 75, Status of NLS at AFAA

it would be far better to have a PDP-11 interface terminals and hosts,

1j3

Again I mentioned our DPS notions,

1j3a

There is apparently a 370/155 at Wright-Pat AFB that will be coming to Norton AFB,

1j4

He also wanted to know if any studies were done in comparing text editors,

1j5

I got the feeling Draper was running hard to get NLS on a machine in-house. The budget discussion are going on and he wanted to push again for it,

1j6

He promised to call me back and let me know the outcome,

1j7

He mentioned that Major Borel, commander of the Base, killed NLS in favor of Mits, a word processing or information system (I think).

1j8

CONTACT: AFAA, Mel Draper on 16 Sept 75, Status of NLS at AFAA

(J26528) 22-SEP-75 15:14;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /ARC-LOG([INFO-ONLY]) DCE([INFO-ONLY
]) JCN([INFO-ONLY]) RLL([INFO-ONLY]) ; Sub-Collections:
SRI-ARC ARC-LOG; Clerk: RLL; Origin: < LIEBERMAN, DRAPER,NLS;3,
>, 22-SEP-75 15:11 RLL ;;;;####;

26528 Distribution

James C. Norton, Log Augmentation, Douglas C. Engelbart, James C.
Norton, Robert N. Lieberman,

hiphen in output processor

currently there is no way to ensure the appearance of a group of words on the same line, it is sometimes desired to hiphenate a group of words with a space rather than with a visible character.

1

i suggest to allow for a definition of a "hiphen character" which will print a space but will ensure the appearance of the hiphenated text on the same line.

2

raphi,

3

ROM 22-SEP-75 14:15 26530

hiphen in output processor

(J26530) 22-SEP-75 14:15;;; Title: Author(s): Raphael Rom/ROM;
Distribution: /FEED([ACTION]) ; Sub-Collections: SRI-ARC; Clerk:
ROM; Origin: < ROM, MSG,NLS;2, >, 22-SEP-75 14:10 ROM ;;;####;

26530 Distribution
Special Jhb Feedback,

Mocked Markers Move Mysteriously

Since my last message on the subject of markers I have not loaded my file mockdvn. I just loaded it and immediately listed the markers. They had moved. They are located as follows for future reference: # = 2c +1, j=1 +1, x= 2d10 +1, m= 1aq +1, a = 1az1 +1, r = 1aw+1, 1g=10an1 +2, 1m = 10ag2a +3, 1bz = 1v +2, 2e21 = 1ai +3. All the one-letter markers were in top level statments. I think J has not changed. All the makers that look like statement numbers were in statements with the corresponding numbers. I don't think the markers have moved character count.

Mocked Markers Move Mysteriously

(J26531) 22-SEP-75 16:33;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /KJM([ACTION]) FEEDBACK([INFO-ONLY])
CHI([INFO-ONLY]) ; Sub-Collections: SRI-ARC FEEDBACK; Clerk: DVN;

26531 Distribution

Karolyn J. Martin, Special Jhb Feedback, Charles H. Irby,

Add my name to the word processing report routing list.

Thanks.

1

RLB2 22-SEP-75 17:09 26532

Add my name to the word processing report routing list.

(J26532) 22-SEP-75 17:09;;; Title: Author(s): Robert Louis
Belleville/RLB2; Distribution: /SGR([ACTION]) ; Sub-Collections:
SRI=ARC; Clerk: RLB2;

26532 Distribution
Susan Gail Roetter,

RLL 22-SEP-75 17:58 26533

CONTACT: CERL, Mike Knowles on 10 Sept 75, Request for documents

CERL = Construction Engineering Research Lab (Army Corps of Engineers)

CONTACT: CERL, Mike Knowles on 10 Sept 75, Request for documents

(CERL) Contact report 26533	1
(DATE) 10 Sept 75	1a
(BY) Lieberman	1b
(ATTENDEES) Full name of organization, address, phone number as substatements	1c
Michael Knowles Of CERL	1c1
Construction Engineering Research Lab	1c1a
Army Corps of Engineers	1c1b
P.O. Box 4005	1c1c
Champaign, Ill 61820	1c1d
(217) 352-6511 ext 392	1c1e
Robert Lieberman - SRI-ARC	1c2
(MEDIUM) PHONE	1d
(WHERE) Menlo Park, CA and Champaign, Ill	1e
(ACTION=ITEMS)	1f
Actions taken, to be taken, etc., dated	1f1
(DISTRIBUTION) ARC-LOG DCE JCN RLL	1g
(REFERENCES) DCE,<JOURNAL, JRNL29, J33383;gw> RLL,(JOURNAL, JRNL30, J26498;gw)	1h
(DOCUMENTS) Hard copy given and received	1i
(GIVEN) Date and documents given	1i1
(RECEIVED) Date and documents received	1i2
(REMARKS)	1j
In response to DCE's request I called Knowles to find out more of his interest and what documentation he needs.	1j1
He is especially interested in documentation production.	1j2

CONTACT: CERL, Mike Knowles on 10 Sept 75, Request for documents

He would like more specifics,

1j2a

He has the Coordinated Information Services and AKW paper,

1j3

Knowles would like to know costs and system stability. He suggested that it would take a year before anything moves at his Lab,

1j4

A list users and the brochure on the seminar to be given are also requested,

1j5

I found that we are in need of additional papers that describe such applications as documentation production facilities of NLS. I will contact DVN to see what he has,

1j6

RLL 22-SEP-75 17:58 26533

CONTACT: CERL, Mike Knowles on 10 Sept 75, Request for documents

(J26533) 22-SEP-75 17:58;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /ARC-LOG([INFO-ONLY]) DCE([INFO-ONLY
]) JCN([INFO-ONLY]) RLL([INFO-ONLY]) ; Sub-Collections:
SRI=ARC ARC-LOG; Clerk: RLL; Origin: < ARC-LOG, KNOWLES,NLS;3,
>, 22-SEP-75 17:53 RLL ;;;;####;

26533 Distribution

James C. Norton, Log Augmentation, Douglas C. Engelbart, James C.
Norton, Robert N. Lieberman,

Lineprocessor Recreates Screen Incorrectly Following Edit

When used via the Lineprocessor from a Datamedia terminal, DNLS has at least two bugs which fairly seriously degrade editing performance:

1

1) Jump to (say) statement one of any file and begin appending text to statement two. If the appended text is sufficiently long to overwrite the previous value of statement two as the former is being accumulated in the text window at the top of the screen, the lines of statement two which are thus overwritten are left blank when the operation is completed.

1a

2) Jump to any multi-line statement of a file and turn on viewspec "y". Delete sufficient text from the end of the statement so that the number of lines in the statement is reduced. The deleted lines will remain on the screen when the operation is completed.

1b

JEW 22-SEP-75 18:29 26534

Lineprocessor Recreates Screen Incorrectly Following Edit

(J26534) 22-SEP-75 18:29;;; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /FDBK([ACTION]) ; Sub=Collections: SRI-ARC
FDBK; Clerk: JEW;

26534 Distribution
Special Jhb Feedback,

Word Processng Report (Re--26521,)

Yes, I would like to see the issues of W P Report.....jeanne

1

Word Processng Report (Re--26521,)

(J26535) 22-SEP-75 19:02;;; Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /SGR([ACTION]) ; Sub-Collections: SRI-ARC; Clerk:
JMB;

26535 Distribution
Susan Gail Roetter,

Weekly Report

22-September-75	1
Week Before Last	1a
nsw protocols	1a1
-worked not at all on updating the file package document as agreed to at the june protocol meeting,	1a1a
project management	1a2
arpa protocols	1a3
-went to DC (8-10 Sep) to discuss DCAs AUTODIN II protocol proposal,	1a3a
Served as a consultant to DCA from SRI under contract 4601 to review a "request for proposal" prepared by DCA for the construction of the AUTODIN II network,	1a3a1
nsa	1a4
-visited NSA with DCE on thurs 11-Sep to discuss protocol and NLS common interests,	1a4a
Last Week	1b
nsw protocols	1b1
-worked not at all on updating the file package document as agreed to at the june protocol meeting, but COMPASS has indicated that the document is no longer desired,	1b1a
project management	1b2
-Visit by Bill Carlson and Duane Stone	1b2a
Bill and Duane were here to discuss NSW funding in the next contract period (APR 76 - JUN 77),	1b2a1
The funding picture is mixed with reduced ARPA direct support, but separate funding support possible by other NSW parties (Gunter, Pentagon and RADC),	1b2a2
-The document on the ident system is not finished and needs help,	1b2b
-People:	1b2c

Weekly Report

dave smith -- new staff, will bring the HELP system into NLS 9.0.	1b2c1
raphael rom -- new staff, will work with EKM on incorporating subsystems into NLS 9.0.	1b2c2
susan ocken -- new staff, will work with RLB2 on "white space problem".	1b2c3
arpa protocols	1b3
Next Week	1c
project management	1c1
-The document on the ident system is not finished and needs help.	1c1a
-collect the set of design documents, transmit the table of contents to COMPASS	1c1b
-reallocate the funds among the project account numbers to refelect the new reality (or unreality, depending on your point of view).	1c1c
-prepare a note relating project account numbers to contract work statement tasks	1c1d
-prepare a "shopping list" of ideas for next proposal round.	1c1e
-review reporting requirements of current contract	1c1f
-revise and refine milestones	1c1g
arpa protocols	1c2
-read INWG notes	1c2a
-read Network Measurement notes	1c2b
-write a chapter on protocols for the "arpa book"	1c2c

Weekly Report

(J26536) 22-SEP-75 19:20;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /ARC-DEV([INFO-ONLY]) ; Sub-Collections:
SRI=ARC ARC-DEV; Clerk: JBP;

26536 Distribution

Susan K. Ocken, Raphael Rom, David C. Smith, Mary Ann Kellan, Andy Poggio, David L. Retz, Jan A. Cornish, Larry L. Garlick, Delorse M. Brooks, Beverly Boli, James E. (Jim) White, Ann Weinberg, Kenneth E. (Ken) Victor, Dirk H. Van Nouhuys, Jonathan B. Postel, Elizabeth K. Michael, David S. Maynard, Karolyn J. Martin, Harvey G. Lehtman, Kirk E. Kelley, Charles H. Irby, Joseph L. Ehardt, Robert Louis Belleville, Don I. Andrews, Richard W. Watson, Douglas C. Engelbart,

ETS Paper ready to go to DDSI

I have made changes in the directives in my version of the Morgan Paper (vanNouhuys,morgan,) so that it appears correct on the Proof screen. The only matter of any note that we did not discuss is that I left the heading "References" in one column, not spread over two columns as it is in your format. That could be changed with a little more work. I suggest I send the paper to the COM vendor for proofs; I'll do that unless I hear from you tomorrow before two our time. Otherwise, give me a ring and we'll talk,

1

DVN 22-SEP-75 19:24 26537

ETS Paper ready to go to DDSI

(J26537) 22-SEP-75 19:24;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /ROF([ACTION]) DMB([ACTION] dpcs
notebook please) &DPCS([INFO-ONLY]) DAP([INFO-ONLY]) ;
Sub-Collections: SRI-ARC DPCS; Clerk: DVN;

26537 Distribution

Richard O. Fortna, Delorse M. Brooks, Documentation Production and
Control System Interest Group , David A. Potter,

Weekly Reports

Each person in arc-dev should be at least informally contributing information to a weekly report made by their group leader as a journal item. The group leaders are: for front end - CHI, for NLS - EKM, for documentation - BEV, for protocols - JEW. We hope that this reporting mechanism will help to keep everyone up to date on all aspects of our NSW efforts and yet will not be too painful in terms of bureaucratic bullshit. --jon.

1

Weekly Reports

(J26538) 22-SEP-75 19:30;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /ARC-DEV([ACTION]) ; Sub-Collections:
SRI-ARC ARC-DEV; Clerk: JBP;

26538 Distribution

Susan K. Ocken, Raphael Rom, David C. Smith, Mary Ann Kellan, Andy Poggio, David L. Retz, Jan A. Cornish, Larry L. Garlick, Delorse M. Brooks, Beverly Boli, James E. (Jim) White, Ann Weinberg, Kenneth E. (Ken) Victor, Dirk H. Van Nouhuys, Jonathan B. Postel, Elizabeth K. Michael, David S. Maynard, Karolyn J. Martin, Harvey G. Lehtman, Kirk E. Kelley, Charles H. Irby, Joseph L. Ehardt, Robert Louis Belleville, Don I. Andrews, Richard W. Watson, Douglas C. Engelbart,

Respected Markers Also Moved

The markers in my initila file were also moved, again with the exception of one which is on character one of statment one.

1

DVN 22-SEP-75 19:36 26539

Respected Markers Also Moved

(J26539) 22-SEP-75 19:36;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /KJM([ACTION]) FEEDBACK([INFO-ONLY])
; Sub-Collections: SRI-ARC FEEDBACK; Clerk: DVN;

26539 Distribution

Karolyn J. Martin, Special Jnb Feedback,

SRI=ARC management reports on NSW project

Duane: the monthly management reports required by our current contract [PR B-65-3324] were sent to the technical coordination contractor, but by our mistake were not also sent to you. The reports are in the form of a set of milestone which parallel the set of tasks in our proposal work statement. In the future these will follow the modified contract more closely. The documents are journal items (26183,) (26316,) and (26375,).

1

JBP 22-SEP-75 19:55 26540

SRI=ARC management reports on NSW project

(J26540) 22-SEP-75 19:55;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /DLS([INFO-ONLY]) RWW([INFO-ONLY])
JBP([INFO-ONLY]) ; Sub-Collections: SRI=ARC; Clerk: JBP;

26540 Distribution

Duane L. Stone, Richard W. Watson, Jonathan B. Postel,

Word Processing Report

Sure, I'd like to see a copy of the report.

1

Word Processing Report

(J26541) 22-SEP-75 20:34;;; Title: Author(s): David C. Smith/DAV;
Distribution: /SGR([ACTION]) ; Sub-Collections: SRI-ARC; Clerk:
DAV;

26541 Distribution
Susan Gail Roetter,

Jim White's One-Man Whiz-Bang Weekly Status Report: 23-SEP-75

● Jim White's One-Man Whiz-Bang Weekly Status Report: 23-SEP-75

1

JIM WHITE

1a

Major Responsibility: DPS Wrapup and AKW Framework Design

1a1

Accomplished Last Week

1a2

- Completed first draft of DPS paper (26513,) and distributed to SRI-ARC for review.

1a2a

- Met with RWW, DCE, CHI, JBP, DAV, DLR, and KEV to begin dialog on AKW system design; wrote and distributed first design note (26492,).

1a2b

- Began second AKW design note incorporating thoughts of meeting.

1a2c

Scheduled Next Week

1a3

- Incorporate comments received on DPS paper, and compose second draft.

1a3a

- Complete and distribute second AKW design note.

1a3b

Jim White's One-Man Whiz-Bang Weekly Status Report: 23-SEP-75

(J26542) 23-SEP-75 12:24;;; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /SRI-ARC([INFO-ONLY]) ; Sub-Collections:
SRI-ARC; Clerk: JEW; Origin: < JWHITE, STSMMSG.NLS;2, >,
23-SEP-75 12:22 JEW ;;;;#####

26542 Distribution

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, 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, Joseph L. Ehardt, 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, James E. (Jim) White

DRAFT: PROGRAMMERS' GUIDE TO THE DEBUGGER

this guide is very big (160 pages if printed). i suggest you read parts that you are interested in online. the guide is located at (jjournal, 26529,). I would appreciate any comments, etc.

1

DRAFT: PROGRAMMERS' GUIDE TO THE DEBUGGER

(J26543) 23-SEP-75 13:07;;; Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /NPG([ACTION]) RWW([INFO-ONLY]) ;
Sub-Collections: SRI-ARC NPG; Clerk: KEV;

26543 Distribution

Susan K. Ocken, Raphael Rom, Jan H. Kremers, David C. Smith, Andy Poggio, David L. Retz, Jan A. Cornish, Larry L. Garlick, Robert Louis Belleville, Elizabeth J. Feinler, Joseph L. Ehardt, Jonathan B. Postel, Kirk E. Kelley, Karolyn J. Martin, David S. Maynard, Kenneth E. (Ken) Victor, James E. (Jim) White, Elizabeth K. Michael, Don I. Andrews, J. D. Hopper, Charles H. Irby, Harvey G. Lehtman, Richard W. Watson,

USER SERVICES WEEKLY REPORT for Week of Sept. 15-19:

1

from JMB

1a

Finished a draft of the Line Processor Users Guide and distributed it for review.

1a1

Dex: worked on the rewrites and cleanup of the DEX primer for ICP Termicette: one of my tasks was to change the descriptions of DEX editing characters to describe the old implementation--which hasn't been re-implemented. All parts of DEX are very much up in the air; it's hard to write about something that I can't verify; and I know the clients are up in the air about DEX too.

1a2

Computer crashes on Tuesday lost a lot of my time.

1a3

All-ARC meetings on funding for Development and on the IWP symposium which I attended on Wednesday. The ARC meetings were very beneficial (although also fainful for everyone) because things often get to a point where I have no idea what's going on and what's in store for me/us in ARC; at least this week I learned our management's attitudes about the questions that have been floating around in my mind. Both finding out on Wednesday what's going on in the rest of the "Word Processing" world and learning the attitudes of many people in ARC about our efforts toward supplying service to clients have brought many questions to my mind about where Applications is going, how fast, with whom, with what coordination with Development, with what priorities, with what marketing efforts, planning, etc. I feel that a meeting of ARC-APP when Norton returns would help my peace of mind a great deal.

1a4

I'm still trying to assimilate what I saw and heard at the IWP symposium talks and equipment exhibits into our work here, but I don't seem to have a framework in which to use all that information, nor did I have a framework at the time for remembering everything of interest. There's a lot of potential in attending such events which we haven't made enough use of. It gave me a lot of energy which I don't know exactly where to apply.

1a4a

from SGR

1b

I didn't keep notes on this week and am having a little trouble remembering everything but here goes... All day Wednesday was spent at the International Word Processing Symposium in SF. I felt it was beneficial and felt I got an energy boost from attending.

1b1

USER SERVICES WEEKLY REPORT for Week of Sept. 15-19:

Also spent time this week trying to get hotel reservations firmed up - about as easy as firming up jello or something... Also finished trip reports, attended ALL-ARC meetings, attended meeting to discuss WP symposium, journalized comments on Mil Jernigan's TNLS User's Guide to DCE (who had requested them) and JHB. Communicated with Connie at ARPA about plans for doing demos for Commander Hollister. Checked on another ETS thing we're going to do here (and made a mental note to do better about keeping track of commitments (forgot the ETS woman who came down on Wednesday to use NLS to input a report - thanks to RA3Y for his help).

1b2

Also checked on Nancy Marks from NSA who is hoping to be at ARC week of Sept. 29 for L10 training. Talked with EKM on training for the people at Wright Patterson and the possibility of going to Gunter next week to head off any of a number of crises.

1b3

from RH

1c

I moved into my new office at SRI-WDC on Monday morning then went and spent the rest of the week at ARPA. Talk about busy. We are still doing the budget review at ARPA. Most of the big textual inputs came in this week (the figures came in the week and half before), but we have handled it and coordinated it well. Everyone seems pleased with it so far and I hope it stays that way. I've done more on-the-job training over the past two weeks than I've done in ages; people are interested in using NLS which is a relief. Over the past few months I've had to try and coerce people who were very unwilling, to try and use NLS; things have changed I'm glad to say. The big thing will be to keep the momentum going.

1c1

The AMC training got cancelled at the last minute but it was just as well. I have rescheduled it for the 29th and 30th of September.

1c2

Betty Finney called a few times last week with some question but there has been no mention about additional training yet.

1c3

Connie hosted a pre-architects meeting at ARPA on Tuesday, which Ron Uhlig, Frank Brignoli, Ed Von Gehren and some guy by the name of Stepphren (?) attended.

1c4

We had a lot of equipment break down at ARPA and I have been in constant communication with Martin getting things replaced as they break.

1c5

The service at Office-1 has been disastourous for the past two weeks. It has consistently had very high loads in the

afternoon (EDT) and then it consistently dies almost every other afternoon or evening, which has not been such a help since most of the inputs we received on the Budget come in the afternoon with people expecting print-outs that evening. There would have been no problem with this if Office-1 had been functioning properly.

1c6

from PKA

1d

I spent all of Monday and Tuesday on Feedback. Quite a few messages had accumulated over the weekend. Tuesday there was on Office-1 crash that caused the feedback file to become a bad file. After about 3 hours on Tues. night of trying to piece it together I went back to an earlier version. Some messages and 3 hours of work were lost.

1d1

Wednesday was the Fall Symposium of the International Word Processing Association that was attended by paw2, sgr, jmb, jhb, bev, ekm. It was very interesting and gave me a broader knowledge of what's going on out in the world. I was surprised that the world is catching up and I strongly feel that more effort should be made to attend this type of thing in the future. The equipment display

1d2

from PAW2

1e

Monday began writing trip report for Princeton/Ft. Monmouth sojourn. Caught up on mail. Attended an All-ARC meeting to hear about the future projected course for NLS.

1e1

Tuesday gave the Basic Course to Susan Ocken and Raphael Rom both new ARC-DEV programmers. (see course report, 26525)

1e2

Wednesday, the International Word Processing Symposium. Interesting and I think valuable, a real insight into what is going on out there, particularly impressive in the marketing area. Sat through sessions dealing with word processing, one on computers and saw the equipment display. I think these conferences can be valuable to get a feel for other products, their capabilities, and the selling market, if for no other reason.

1e3

Thursday finished up trip report, All-Arc meeting resumed, open discussion on people's views concerning (NSA,CIA) as possible NLS clients. Started the second course with Raphael, Susan sick.

1e4

Friday-Worked through the second course with Susan. Again another All-ARC meeting. Those of us who had attended

USER SERVICES WEEKLY REPORT for Week of Sept. 15-19:

Wednesday's conference tried to give others an overview of what it involved.

1e5

USER SERVICES WEEKLY REPORT for Week of Sept. 15-19:

(J26544) 23-SEP-75 14:38;;; Title: Author(s): Jeanne M. Beck, Susan Gail Roetter, Pamela K. Allen, Priscilla A. Wold, Rita Hysmith/JMB SGR PKA PAW2 RH; Distribution: /JHB([INFO-ONLY]) JCN([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk: RH;

26544 Distribution

James H. Bair, James C. Norton,

ELF Loading Procedures

● Loading System A	1
On the PDP-11 Console	1a
Load Address 773000	1a1
Start	1a2
Using a terminal connected to some other system	1b
Connect to SRI-AI Tenex and logic as	1b1
ARCELF (ELF) ELF<cr>	1b1a
RUN <ARCELF>NBOOT<cr>	1b2
HOST: 202<cr>	1b2a
INPUT FILE: UTIL-A.BIN<cr>	1b2b
Wait until	1b3
Tenex says "STARTED AT LOC 120000"	1b3a
or the PDP-11 says "ELF SYSTEM LOADER STARTED"	1b3b
you may have to control-C Tenex at this point	1b3b1
RUN 11COPY<cr>	1b4
INPUT FILE: ELF-A.LDA<cr><cr>	1b4a
OUTPUT FILE: NET:.202-2<cr><cr>	1b4b
Wait until that is done	1b5
If the PDP-11 does not start by itself type on the PDP-11 TTY	1c
40;G	1c1
Loading System B	2
On the PDP-11 Console	2a
Load Address 773000	2a1
Start	2a2
Using a terminal connected to some other system	2b

Connect to SRI-AI Tenex and logic as	2b1
ARCELF (ELF) ELF<cr>	2b1a
RUN <ARCELF>NBOOT<cr>	2b2
HOST: 2<cr>	2b2a
INPUT FILE: UTIL-B.BIN<cr>	2b2b
Wait until	2b3
Tenex says "STARTED AT LOC 120000"	2b3a
or the PDP-11 says "ELF SYSTEM LOADER STARTED"	2b3b
you may have to control-C Tenex at this point	2b3b1
RUN 11COPY<cr>	2b4
INPUT FILE: ELF-B.LDA<cr><cr>	2b4a
OUTPUT FILE: NET: .2-2<cr><cr>	2b4b
Wait until that is done	2b5
If the PDP-11 does not start by itself type on the PDP-11 TTY	2c
40;G	2c1

ELF Loading Procedures

(J26545) 23-SEP-75 17:48;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /SRI-ARC([INFO-ONLY]) ; Sub-Collections:
SRI-ARC; Clerk: JBP;

26545 Distribution

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, Susan K. Ocken, Raphael Rom, David C. Smith, Buddie J. Pine, Andy Poggio, David L. Retz, Laura J. Metzger, Carolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt, 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, James E. (Jim) White

More KIRKNOTES--Keeping you up on the local gossip

I just realized that you will see this before the next citation that explains what it is <26506,>. So maybe you should read the comment there first. When you read the file this time you need to start with branch 3, because it is backwards chronologically.

More KIRKNOTES--Keeping you up on the local gossip

Tues., Sept. 23

Good afternoon

1

2

It turns out that I won't be talking to Dick about the matter I referred to on Fri. (you have to read this file a little backwards) until later in the week. Meanwhile I will review all we need to do, and include in that list Dirk's Publication and Pooh's Graphics. Today I had a little meeting with Doug the Chief. --Which reminds me, before I forget--You got something in the SRI mail last week in an Interoffice envelope marked personal and private. I put it in a pile with your other belongings on the bookshelves. Today I officially moved in, took over your desk, repiled your belongings, and replaced my door with a table. I now feel like a real big-shot.

2a

To get back to the matter at hand. This little pep talk from Doug made oblique references to problems between App. and Dev. doc. and a certain individual who contributes to the difficulties, and included a rather rambling dissertation replete with boxes, circles, arrows lines and scribbles about where documentation will be going in the future and its little niche in THE DREAMA. (God, I'm already getting cynical.) But what was most new for me was to hear him talk about Help. You have already discussed his feelings about help with him I'm sure, but it was a bit of a surprise for me.

2b

The gist of what he said was that he never intended for Help to become a humongous (sp?) data base and complex interactive online reference tool. He thinks it is antithetical to NLS to lead users around by the hand the way help does. And he personally doesn't like using it. He'd much rather have a hardcopy, mammoth reference manual that he could look up things in. What he envisions is a little help for beginning users, and then a method of finding all other documentation by browsing around in files. This way people could print what they might want, and in general have more control over what they will see. I didn't mention any of the things we would like to do that would make help more flexible and meet some of the needs he mentioned. I assumed that all of the arguments have been repeated a hundred times. I did voice out loud though my wonder about why the only Dev. doc. we are doing is cleaning up Help data bases.

2c

This is probably not news for you, but it was for me. I'm afraid in general that Doug should leave his pep talks to Dick or someone else. He just depressed me and made me feel that the vision is interesting, but the means of achieving it are so inept that the dream becomes a mockery. It seems dangerous to me to continue to try to steer an organization by inspiration alone. A large part

More KIRKNOTES--Keeping you up on the local gossip

of the discussions on funding last week was a plea for some leadership and some practical actions that might help us achieve our ends.

2d

Guess I'll send this to you today. Let me hear from you when you are online again.

2e

Fri., Sept. 19

3

Hi

4

Not a whole lot today, but one rather shaky thing that I thought you should probably know about. Or I should probably keep to myself until I find out what it means, but I am a believer in everyone knowing everything, so I'll mention it.

4a

It turns out that Carlson wasn't even interested in funding us with some tying the package up in ribbons money, so we are going to cut down the number of people working on NSW. Actually, this means we will have 10.5 people on it for 12 months rather than 14 people for 9 mos. (I assume that works out correctly--those are the numbers Dick was throwing around.) So Dick said to me today that we need to review doc. needs, because it might be out of balance for doc. to have 1.5 out of the 10.5 people. I said I assumed we'd now be spending a lot of time on proposals; he said probably, but we need to discuss it.

4b

So I talked to Elizabeth this afternoon to find out if she felt she would need you anymore in light of this new pressure to impress the Air Force. She said Jan can handle it all--apparently under his Applications hat rather than using more Dev. funds. This means that Dick needs to see us (documentation) as worth 1.5 NSW/man/dollars, if there is such a thing. Ah, the politics of R&D--not much different from those of any other organization. Except for some of the creeps we have to try to please. Hope your vacation has left you in a pleasant state of mind to digest all this.

4c

More KIRKNOTES--Keeping you up on the local gossip

(J26546) 23-SEP-75 21:26;;; Title: Author(s): Beverly Boli/BEV;
Distribution: /KIRK([ACTION]) ; Sub-Collections: SRI-ARC; Clerk:
BEV;

26546 Distribution
Kirk E. Kelley,

Letter about GRE Newsletter

This is the original of a letter sent (hardcopy) to DVN on September 24. I'm also sending it via the Journal in order to provide a copy that includes the directives -- just in case they're of any interest.

DAP 24-SEP-75 10:20 26547

DAP 24-SEP-75 10:20 26547

Letter about GRE Newsletter

Letter about GRE Newsletter

26 SEP 75

2

Dirk H. Van Nouhuys
Stanford Research Institute
Augmentation Research Center
333 Ravenswood Avenue
Menlo Park, California 94025

3

Dear Dirk:

4

Now that we're getting into COM, interest increases. Bob Altman directs the Graduate Record Examinations program here. They publish the enclosed Newsletter approximately four times (I think) a year. Bob has recently begun using NLS in his day-to-day work, and would like to explore using COM to publish the Newsletter. I told him I'd send this off and see how difficult it would be to format it appropriately.

5

The masthead is no problem; we'd just leave space to use the existing one. Other than that, I see no real problem; in fact, I've approximated the format as follows:

6

Letter about GRE Newsletter

NEWS

This is a sample of what we can do with the Output Processor in terms of generating blocked output. If this works, all of this should show up in a format much like the one used by the Graduate Record Examinations staff for their Bulletin. Of course, it probably won't work the way I want it to, but it seems worth a try. So here I go typing in a mess of nonsense just to find out if it's possible to format the text in the way I want it done...If it works I'll be more surprised than anyone else,

7

TESTING

So here we go again with more nonsense about our activities, which have been greatly augmented by the recent move to computer-assisted word processing. Of course, it would be a big help if the machine could spell and even more if it would do the writing on its own; but of course it can't. It IS a big help, though. Anyway, it seems to be able to do what we want it to do...

8

So far as I can tell, we could even do it without COM if only NLS provided full justification (a point which I hope will be covered at the KWAC meeting). Let me know if you have any suggestions; otherwise, just file the enclosed Newsletter away until we get around to actually trying to use NLS for this purpose (which of course may never happen).

9

see you in Cambridge...

10

Sincerely,

David A. Potter
Research Psychologist

11

DAP 24-SEP-75 10:20 26547

Letter about GRE Newsletter

(J26547) 24-SEP-75 10:20;;; Title: Author(s): David A. Potter/DAP;
Distribution: /DVN([ACTION]) RAA([INFO-ONLY]) ; Sub-Collections:
NIC; Clerk: DAP; Origin: < POTTER, DVN,NLS;2, >, 24-SEP-75 10:16
DAP ;;;;###;

26547 Distribution

Dirk H. Van Nouhuys, Robert A. Altman,

AKW System Design Note 2

NEW THOUGHTS FROM LAST MEETING

(19-SEP-75, DCE RWW JBP CHI KEV DLR DAV JEW)

- For users and potential funders, the four main components of the the AKW framework are the Frontend (FE), the Frontend workplace (FEW), the virtual file system, and the protocols which tie them all together. The FEW, however, is an intangible and exists only in the user's imagination; it is not a concept which aids the system designer,

1a

- Our interest is in seeing a framework suitable for AKW produced by SOMEONE, whether it be us, NSW, or someone else,

1b

- For purposes of securing funding, the framework should be promoted as a mechanism for bringing coherence to the various ARPA-sponsored distributed computation programs: NSW, IT, COTCO, VLDB, etc,

1c

- Various levels of the framework must be distinguished, since some potential funders will be interested in only one or a range of levels, not in the whole AKW,

1d

- The framework must admit competing FEs (not just ARC's), each providing its own type and level of support to the user. The aim is to encourage various, increasingly sophisticated frontend approaches to be explored, built, tested, and evaluated by the user community,

1e

- The AKW protocols must be layered in such a way that each new level of functional capability can be successively but independently agreed upon and implemented,

1f

AKW FRAMEWORK

2

Introduction

2a

This memo begins to characterize, from the system builder's perspective, the Augmented Knowledge workshop (AKW) described by ARC in [1]. The AKW consists conceptually of an open-ended set of "tools" and a system "framework" via which the tools are made available to the user.

2a1

The framework is described below in turns of the successive development levels required to construct it. The lower levels establish a foundation for the workshop within the network environment, with each successive level providing the AKW user increased capability.

2a2

Inner Framework

2b

Function

2b1

The inner framework (IF) provides a coherent programming environment in which tools can be invoked and debugged programatically; unified file and billing systems; and handles for detecting and diagnosing malfunctions of the system. The IF thus constitutes the AKW's distributed operating system.

2b1a

Level 1 -- a distributed programming system

2b2

The AKW must provide geographically separated users with access to a potentially large and diverse set of tools, requiring a large number of independent software manufacturers and host computers for their construction and run-time support, respectively. The AKW is therefore a distributed system and must be embedded in a communications network (e.g. the ARPANET). It is also, therefore, a heterogeneous system, since tool suppliers will (or, in some cases, have already) implemented their tools using the programming languages, operating systems, and host computers which they deem most appropriate to the task. Because it is a distributed system involving heterogeneous hardware and software, the AKW will require appropriate interfacing software and protocols for binding its various modules together.

2b2a

This lowest-level software must effectively protect well-behaved modules from ill-behaved ones. Although a fairly comprehensive initial set of tools can no doubt be identified and made part of the AKW's initial configuration, new tools will be needed, built, and installed long after the system programmers who implement the framework have completed their task. Furthermore, a major objective of the AKW is to provide a marketplace in which competing tools (e.g. two editors) can be installed and then evaluated by users. The AKW must therefore be capable of assimilating new and undebugged tools without jeopardizing the integrity of the framework.

2b2b

Existing work in this area includes the Resource Sharing Executive (RSEXEC) and Route Oriented Simulation System (McROSS), both developed by BBN [5, 6]; the Distributed Programming System (DPS) developed by ARC for NSW [2, 3, 4]; and the MSG program being developed by MCA [8]. The most appropriate vehicle for AKW may be a composite of several of these systems, or an entirely new protocol which benefits from their mistakes. In either case, the protocol should probably be layered, and access to successively higher

layers negotiated at run-time. By defining various "minimal" implementations, this approach allows new contractors to bring up functioning software more quickly, and reduces the difficulty of obtaining agreement on the protocol among the many contractors involved.

2b2c

Level 2 -- the frontend/backend habit

2b3

The AKW will make a large number of "core" and "specialized" tools accessible to the user. The workshop's core tools, characterized by their intrinsic importance and heavy use in all areas of knowledge work, will include tools for studying and manipulating on-line documents, and dialog support tools for conducting real-time (teleconferencing) and less-than-real-time (mail) dialog with other AKW users. Many specialized tools, used less frequently than core tools and in general by only a portion of the AKW user population, will also be available.

2b3a

The AKW user cannot hope to be effective if each of these many tool confronts him with a different command language discipline. Learning to use a new tool must be analogous to increasing one's vocabulary, not to learning a new foreign language. The AKW can most effectively achieve these goals by providing the user with a common command language interpreter (CLI) which provides a user interface which is consistent in form across all tools.

2b3b

Before an AKW CLI can be of use to the user, however, tool suppliers must begin building tools with a view to their use by other programs (e.g. the CLI), rather than by human users. Tools which must run stand-alone as well as within the AKW framework must be cleanly divided into a "back-end" (BE) component which contains the tool's functional capabilities, and a front-end (FE) component which delivers them to the user. Provided FE and BE communicate by means of the Level 1 protocol described above, the AKW CLI can then be substituted for the FE when the tool is installed in the AKW. The process of installing NLS as an NSW tool, for example, has been largely one of splitting it into FE and BE components [9].

2b3c

Level 3 -- a virtual file system

2b4

A single command language discipline for all tools is necessary but not sufficient to provide the AKW user with the consistent (and therefore comfortable) workshop environment he requires to work effectively. Just as the AKW must provide a consistent means for commanding tools, so

it must also provide a consistent means for delivering data to them, i.e., a unified file system from which all tools extract their input and deposit their output,

2b4a

Previous work in this area includes the File Transfer Protocol (FTP) devised by the ARPANET's Network Working Group [7], the RSEXEC developed by BBN [5], and the NSW file system implemented by MCA's Works Manager [10]. We know from all this experience that modelling even the most common and useful file types is a very difficult problem when attacked in a heterogeneous computer network. And, the AKW is apt to require a more sophisticated virtual file system than any developed so far; one, for example, that permits remote manipulation of selected file elements as well as whole files.

2b4b

Level 4 -- centralized billing

2b5

Another important step in providing a consistent workshop environment is relieving the user of responsibility for interacting administratively with each of the installations whose tools he employs. The AKW must therefore gather up the charges he incurs at these various sites, and present him with a single AKW bill.

2b5a

No ARPANET work of which we are aware has been conducted in this area. Although centralized billing is one of the stated goals of NSW, and although DPS provided the framework in which charges could be reported, no operating systems have yet been modified to provide real-time billing information.

2b5b

Level 5 -- debugging aids

2b6

The AKW will evolve into a large, complex distributed system with unique operational and maintenance problems. It must therefore contain sophisticated interactive debugging facilities for use by system programmers and tool implementers in shaking down new areas of the workshop. The debugger must include a hierarchical protection scheme which, for example, prevents tool implementers from modifying the framework.

2b6a

The framework must also provide run-time handles for extracting use and performance data to help identify areas of the system which, because of their high utilization or unsatisfactory performance, demand the attention of system programmers. Such information should be both provided upon

AKW System Design Note 2

specific request, and logged periodically at a central "Workshop Control Center" (WCC).

2b6b

The ARPANET's Network Control Center (NCC) provides a working example of both such facilities, albeit at a lower level [11]. Both ARC [12] and BBN [13] have done work at a higher-level on debuggers for distributed systems.

2b6c

Outer Framework

2c

Function

2c1

The outer framework (OF) is that portion of the overall framework which delivers AKW services to the user. It is, in a sense, a set of applications Programs which build upon the foundation provided by the IF operating system.

2c1a

Level 1 -- command language interpreters

2c2

By far the most important component of the AKW service delivery mechanism is the CLI, which helps the user formulate tool requests, and then invokes the appropriate tool functions on the user's behalf. Work in this area includes ARC's CLI and associated Control Meta Language (CML) [14].

2c2a

There are a number of schools of thought regarding the nature of the dialog between user and CLI by which functions and their parameters are best determined. The AKW must, therefore, admit competing CLIs and allow the user to decide which appeals to him most.

2c2b

A fairly large class of tool interactions can be handled by competing CLIs without special support from the OF. More sophisticated tools, however, require that additional AKW-wide conventions be specified and adhered to. The OF must define, for example, a virtual display terminal for those tools which have to manipulate the user's screen explicitly (e.g. two-dimensional editors); and each competing CLI must implement the selected model.

2c2c

Without special OF support in another area, each new CLI will have to be supplied equipped with a set of run-time data bases which describe the set of legal commands to each tool. As new tools are added and existing tools changed, these "grammars" will require updating. The OF can eliminate the need for this costly support task by specifying a virtual grammar which the tool supplier

AKW System Design Note 2

provides and which each CLI employs. Defining an adequate virtual grammar quite is probably a difficult task,

2c2d

Level 2 == old tools

2c3

The AKW must provide limited access to "non-AKW" tools, as well as to those tools either created or modified (with varying degrees of effort) expressly for AKW use,

2c3a

Level 3 == tool coupling

2c4

The AKW can facilitate the application of several tools to a single task by allowing the user to supply results produced by one tool as arguments to another. Of most practical importance here is the ability to couple core tools to specialized tools, so that, for example, an editor can be employed to prepare input for or manipulate output from a data management system. However, it seems quite probable that implementing this special case implements the general case as well,

2c4a

Level 4 == User programming facilities

2c5

Users will require very specialized tools tailored to their particular tasks, at a rate which exceeds that at which applications programmers can supply them. The AKW can alleviate this problem by offering a user programming capability, along with the interactive debugging facilities required to support it,

2c5a

Level 5 == administrative controls

2c6

The AKW must eventually provide administrative controls which managers can employ to regulate use of the workshop by users in their charge. MCA is doing considerable work in this area for NSW,

2c6a

Conclusion

2d

ARC is committed to seeing the AKW, and therefore its framework, constructed. Since the AKW is similar in many respects to NSW, the most economical means of acquiring the AKW framework may be to let NSW produce it. One of ARC's tasks, therefore, is to evaluate the NSW as it takes shape, to determine if its perspective is sufficiently long range to meet AKW's needs,

2d1

REFERENCES

3

AKW System Design Note 2

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- 2) White, J.E. First Draft of DPS Paper. (26513,). Sep. 19, 1975. 3b
- 3) White, J.E. DPS Implementer's Guide. (26282,). Aug. 15, 1975. 3c
- 4) White, J.E. Dps programmer's Guide. (26271,). Aug. 13, 1975. 3d
- 5) [RSEXEC] 3e
- 6) Thomas, R.H. and Henderson, D.A. McROSS == A Multi-computer programming system. SJCC 1972, 281-293. 3f
- 7) Neigus, N. File Transfer Protocol. (17759,) July 12, 1973. 3g
- 8) [MCA MSG] 3h
- 9) Irby, C. NSW Frontend Packages and procedures. (26151,) July 17, 1975. 3i
- 10) [WM FILE SYSTEM] 3j
- 11) [BBN NCC] 3k
- 12) Victor, K. 1st rough draft of the Programmer's Guide to the Debugger Dispatcher. (26486,) Sep. 17, 1975. 3l
- 13) Mader, E. Network debugging Protocol. (30873,) July 1974. 3m
- 14) [ARC CLI/CML] 3n

AKW System Design Note 2

(J26548) 24-SEP-75 12:03;;; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /SRI-ARC([INFO-ONLY]) ; Sub-Collections:
SRI-ARC; Clerk: JEW; Origin: < JWHITE, AKWMSG.NLS;8, >
24-SEP-75 12:01 JEW ;;;;####;

26548 Distribution

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, Susan K. Ocken, Raphael Rom, David C. Smith, Buddie J. Pine, Andy Poggio, David L. Retz, Laura J. Metzger, Carolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt, 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, James E. (Jim) White

Request to Add Journal Item about FORMATTER to DPCS Subcollection

I found your item (journal,33523,) interesting from the viewpoint of DPCS and wonder if you would mind my rejournalizing it to add it to the DPCS subcollection (25265,) a place where I hope people trying to do similar things in the future would look. Forward, by the way, cannot add an item to a subcollection.

1

Request to Add Journal Item about FORMATTER to DPCS Subcollection

(J26549) 24-SEP-75 12:22;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /DLS([ACTION] We decided not to do the
survey for Dyer, by the way, thought we could not do a good job for the
price) DPCS([INFO-ONLY]) FEEDBACK([INFO-ONLY] see last sentence,
forward should do that) ; Sub=Collections: SRI-ARC DPCS FEEDBACK;
Clerk: DVN;

26549 Distribution

Duane L. Stone, Marilynne A. Sims, Delorse M. Brooks, Elizabeth F. Finney, Beverly Boli, Joseph L. Ehardt, James H. Bair, Robert N. Lieberman, Pat Whiting O'Keefe, James H. Bair, Robert Louis Belleville, Ann Weinberg, Thomas L. Humphrey, Jeanne M. Leavitt, Kirk E. Kelley, Duane L. Stone, Elizabeth J. Feinler, N. Dean Meyer, Dirk H. Van Nouhuys, Douglas C. Engelbart, James C. Norton, Richard W. Watson, Charles H. Irby, Special Jhb Feedback,

Request to Add Journal Item about The Graduate Record Examination
Newsletter to DPCS Subcollection

I found your item (journal,26547,) interesting from the viewpoint of DPCS and wonder if you would mind my rejournalizing it to add it to the DPCS subcollection (25265,) a place where I hope people trying to do similar things in the future would look. Forward, by the way, cannot add an item to a subcollection.

1

Request to Add Journal Item about The Graduate Record Examination
 Newsletter to DPCS Subcollection

(J26550) 24-SEP-75 12:31;;; Title: Author(s): Dirk H. Van
 Nouhuys/DVN; Distribution: /DAP([ACTION] I will run it on the Proof
 Screen today) DMB([ACTION] dpcs notebook please) DPCS([INFO-ONLY]
) FEEDBACK([INFO-ONLY] see last sentence, forward should do that) ;
 Sub-Collections: SRI=ARC DPCS FEEDBACK; Clerk: DVN;

26550 distribution

David A. Potter, Delorse M. Brooks, Marilynne A. Sims, Delorse M. Brooks, Elizabeth F. Finney, Beverly Boli, Joseph L. Ehardt, James H. Bair, Robert N. Lieberman, Pat Whiting O'Keefe, James H. Bair, Robert Louis Belleville, Ann Weinberg, Thomas L. Humphrey, Jeanne M. Leavitt, Kirk E. Kelley, Duane L. Stone, Elizabeth J. Feinler, N. Dean Meyer, Dirk H. Van Nouhuys, Douglas C. Engelbart, James C. Norton, Richard W. Watson, Charles H. Irby, Special Jhb Feedback,

Comments To Individual Journal Recipients Should be Longer.

I mean when you write in a special note to one person after an ident. I use this feature a lot but if I have more than about 4 lines it says "String too long". Often I have just typed some long, subtle implication, and I am really pissed off when that happens. It should be atleast 2000 characters. While I am on the subject, you should be able to make such comments to the recipients of forwards, and forwarding should add the item to appropriate subcollections.

1

DVN 24-SEP-75 12:45 26551

Comments To Individual Journal Recipients Should be Longer.

(J26551) 24-SEP-75 12:45;;; Title: Author(s): dirk H. Van
Nouhuys/DVN; Distribution: /FEEDBACK([ACTION]) RA3Y([INFO=ONLY])
; Sub=Collections: SRI=ARC FEEDBACK; Clerk: DVN;

26551 Distribution

Special Jhb Feedback, Raymond R. Panko,

RLL 24=SEP=75 14:34 26552

CONTACT: AFAA, Draper on 11 Sept75, re his contact with FAA [Engle].,

Documents have been sent. Stone of RADC has been told of Engle's interest and Engle has been given Stone's name as a person to contact re all this.

CONTACT: AFAA, Draper on 11 Sept75, re his contact with FAA [Engle],.

(FAA) Contact report 26552 1

(DATE) 11 Sept 75 1a

(BY) Lieberman 1b

(ATTENDEES) Full name of organization, address, phone number as
substatements 1c

Mel Draper - AFAA 1c1

Robert Lieberman - SRI-ARC 1c2

(MEDIUM) PHONE 1d

(WHERE) Menlo Park, Ca and San Bernardino, CA 1e

(ACTION=ITEMS) 1f

SEND literature to Engle of FAA 1f1

(DISTRIBUTION) ARC-LOG DCE JCN RLL RW 1g

(REFERENCES) 1h

RLL 17-SEP-75 15:07 26485 LETTER: To Charles Engle of FAA,
Sent 16 Sept 75, Re: document request
Location: (JJOURNAL, 26485, 1:w) 1h1

(DOCUMENTS) Hard copy given and received 1i

(GIVEN) Date and documents given 1i1

(RECEIVED) Date and documents received 1i2

(REMARKS) 1j

Mel Draper called me about a guy from the Federal Aviation
Agency. 1j1

Mel spoke about our system to him after learning of the FAA
needs. Apparently the FAA guy was going to develop something
very similar to what the utility now has operational (!). 1j2

The fellows name is: 1j3

Mr. Charles Engle 1j3a

ARD 141, Building 7 1j3b

CONTACT: AFAA, Draper on 11 Sept75, re his contact with FAA [Engle],.

DOT/FAA 1j3c

NAFEC 1j3d

Atlantic City, NJ 80024 1j3e

Engle is the chief of systems development and a former Air officer in the Air force. 1j4

Engle is a GS 18, that is, a very high level person in the FAA. 1j5

FAA has a communication problem between two controllers before the airplane arrives at the second controllers area. They also need to communicate between controllers for shift changes. 1j6

They are interested in data management systems, system evaluations, and max/min computer developments. They plan to build a net among the various controller centers. 1j7

They will connect initially 20 offices and eventually every office of which there is at least one in each state. They have funding for all this including the communication costs. 1j7a

Mel emphasized that there really was money there, unlike at his agency. 1j7a1

Mel requested that I send Engle several papers (including the workstation manual), the name of ARPANET person to contact, all about OFFICE=1, and a proposal to FAA at some later date. 1j8

As an aside, Mel said that the strategy of using NLS, per the discussion he had with us many months ago, is down the drain. (More on this in a separate contact report == 26528,> 1j9

RLL 24-SEP-75 14:34 26552

CONTACT: AFAA, Draper on 11 Sept75, re his contact with FAA [Engle]..

(J26552) 24-SEP-75 14:34;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /ARC-LOG([INFO-ONLY]) DCE([INFO-ONLY
]) JCN([INFO-ONLY]) RLL([INFO-ONLY]) RWW([INFO-ONLY]) ;
Sub-Collections: SRI-ARC ARC-LOG; Clerk: RLL; Origin: <
LIEBERMAN, DRAPER,NLS;4, >, 24-SEP-75 14:31 RLL ;;;;####;

26552 Distribution

James C. Norton, Log Augmentation, Douglas C. Engelbart, James C.
Norton, Robert N. Lieberman, Richard W. Watson,

CONTACT: Texas Instruments, McClure Sept 75

This was written by RLL from a RLB2 note.

CONTACT: Texas Instruments, McClure Sept 75

(TI) Contact report 26553	1
(DATE) Sept 75	1a
(BY) Belleville	1b
(ATTENDEES) Full name of organization, address, phone number as substatements	1c
Ward McClure - TI	1c1
214-238-3479	1c1a
Bob Belleville - SRI-ARC	1c2
(MEDIUM) FACE-TO-FACE	1d
(WHERE) SRI, Menlo Park, CA	1e
(ACTION=ITEMS)	1f
Actions taken, to be taken, etc., dated	1f1
(DISTRIBUTION) ARC-LOG DCE JCN RLL RLB2	1g
(REFERENCES)	1h
(DOCUMENTS) Hard copy given and received	1i
(GIVEN) Date and documents given	1i1
(RECEIVED) Date and documents received	1i2
(REMARKS)	1j
I talked with Ward McClure of Texas Instruments, Dallas. 214-238-3479,	1j1
I demonstrated the system and he seemed interested in the product. I gave him Lieberman's name; however, a follow up from RLL is probably in order,	1j2

CONTA~~C~~T: Texas Instruments, McClure Sept 75

(J26553) 24-SEP-75 15:13;;; Title: Author(s): Robert Louis
Belleville/RLB2; Distribution: /ARC=LOG([INFO=ONLY]) DCE([
INFO=ONLY]) JCN([INFO=ONLY]) RLL([INFO=ONLY]) RLB2([
INFO=ONLY]) ; Sub-Collections: SRI=ARC ARC=LOG; Clerk: RLL;
Origin: < LIEBERMAN, TI,NLS;3, >, 24-SEP-75 14:52 RLL ;;;;###;

26553 Distribution

James C. Norton, Log Augmentation, Douglas C. Engelbart, James C.
Norton, Robert N. Lieberman, Robert Louis Belleville,

CONTACT: Mary Edwards on 9 Sept 75 re cost of call to Sweden and
Telex cost

(PHONE) Contact report 26554	1
(DATE) 9 Sept 75	1a
(BY) Lieberman	1b
(ATTENDEES) Full name of organization, address, phone number as substatements	1c
Mary Edwards - SRI	1c1
Robert Lieberman - SRI-ARC	1c2
(MEDIUM) PHONE	1d
(WHERE) SRI, Menlo Park, CA	1e
(ACTION=ITEMS)	1f
Actions taken, to be taken, etc., dated	1f1
(DISTRIBUTION) ARC=LOG DCE JCN RLL	1g
(REFERENCES)	1h
(DOCUMENTS) Hard copy given and received	1i
(GIVEN) Date and documents given	1i1
(RECEIVED) Date and documents received	1i2
(REMARKS)	1j
I called Mary of our communication services to find out the cost of a phone call to Sweden and Telex transmission.	1j1
The day, station to station rate for the first 3 minutes is \$6.75 and \$2.25 for each additional minute plus 7% tax.	1j2
Telex cost \$2.55 plus 7% tax per minute and it usually is 60 words per minute.	1j3

RLL 24-SEP-75 15:23 26554

CONTACT: Mary Edwards on 9 Sept 75 re cost of call to Sweden and
Telex cost

(J26554) 24-SEP-75 15:23;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /ARC-LOG([INFO-ONLY]) DCE([INFO-ONLY
]) JCN([INFO-ONLY]) RLL([INFO-ONLY]) ; Sub-Collections:
SRI=ARC ARC-LOG; Clerk: RLL; Origin: < LIEBERMAN, PHONE.NLS;2,
>, 24-SEP-75 15:19 RLL ;;;;####;

26554 Distribution

James C. Norton, Log Augmentation, Douglas C. Engelbart, James C.
Norton, Robert N. Lieberman,

Bug in DNLS 8.5 (at ISIC)

I don't know how much of this is necessary, but if I:

(1) split my screen with a vertical edge (showing two views of the same file),

(2) do a REPLACE TEXT, specifying with the bug a string in the right-hand view to be replaced by a string in the left-hand view, and

(3) if the REPLACE TEXT causes the changed statement to wrap around,

then when the right-hand view updates itself it sticks garbage characters on the screen along the edge boundary.

(There probably is a simpler way to get this behavior.)

1

1a

1b

1c

2

3

DAV 24-SEP=75 12:32 26555

Bug in DNLS 8,5 (at ISIC)

(J26555) 24-SEP=75 12:32;;; Title: Author(s): david C. Smith/DAV;
Distribution: /FEEDBACK([ACTION]) ; Sub=Collections: SRI=ARC
FEEDBACK; Clerk: DAV;

26555 Distribution
Special Jhb Feedback,

Programmers Information Packet

It would be quite helpful to our new staff programmers and to clients learning L10 programming to develop a package of documents, relating to NLS and L10 programming tools and techniques. Deans L10 Guide is certainly the major component, but there may be other useful items. I would be willing to assist in composing a model packet of documents.

--jon.

Programmers Information Packet

(J26556) 24-SEP-75 15:24;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /SGR([ACTION]) JHB([ACTION]);
Sub-Collections: SRI=ARC; Clerk: JBP;

26556 Distribution

Susan Gail Roetter, James H. Bair,

CONTACT: Ron Deutsch (SRI) on 23 Sept 75, re Promotion services

(DEUTSCH) Contact report 26557 1

(DATE) 23 Sept 75 1a

(BY) Lieberman 1b

(ATTENDEES) Full name of organization, address, phone number as
substatements 1c

Ron Deutsch - SRI 1c1

Robert Lieberman - SRI-ARC 1c2

(MEDIUM) PHONE 1d

(WHERE) SRI, Menlo Park, CA 1e

(ACTION=ITEMS) 1f

Actions taken, to be taken, etc., dated 1f1

(DISTRIBUTION) ARC=LOG DCE JCN RLL 1g

(REFERENCES) <26558,> 1h

(DOCUMENTS) Hard copy given and received 1i

(GIVEN) Date and documents given 1i1

(RECEIVED) Date and documents received 1i2

(REMARKS) 1j

I called Ron who is in charge of SRI promotion. 1j1

His group does not get into direct mailing. 1j2

See Dave Penning for direct mailing. 1j3

Basically, his group writes stories, gets them into
publications, makes contacts, plugs things in industry and
government. 1j4

They also arrange tours, slide shows, publications, and large
seminars. 1j5

He thought we should really make a commitment as to whether we
should grow or not. When we decide to grow then they will
start plugging away. 1j6

CONTACT: Ron Deutsch (SRI) on 23 Sept 75, re Promotion services

He said that selective participation is bound to mean no growth. It takes lots of contacts and exposure to grow.

1j7

As an aside, he is interested in seeing our brochure and past announcement on the AKW seminar.

1j8

Also, the SRI slide show now has no deadline.

1j9

1k

RLL 24-SEP-75 15:57 26557

CONTACT: Ron Deutsch (SRI) on 23 Sept 75, re Promotion services

(J26557) 24-SEP-75 15:57;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /ARC=LOG([INFO-ONLY]) DCE([INFO-ONLY
]) JCN([INFO-ONLY]) RLL([INFO-ONLY]) ; Sub-Collections:
SRI=ARC ARC=LOG; Clerk: RLL; Origin: < LIEBERMAN, DEUTSCH,NLS;4,
>, 24-SEP-75 15:54 RLL ;;;;####;

26557 Distribution

James C. Norton, Log Augmentation, Douglas C. Engelbart, James C.
Norton, Robert N. Lieberman,

CONTACT: Penning(SRI) on 23 Sept 75, Direct mailing help/promotion

(PENNING) Contact report 26558	1
(DATE) 23 Sept 75	1a
(BY) Lieberman	1b
(ATTENDEES) Full name of organization, address, phone number as substatements	1c
Dave Penning - SRI-CIM	1c1
Director of Commerical and Industrial Marketing	1c1a
x4746	1c1b
Robert Lieberman - SRI-ARC	1c2
(MEDIUM) PHONE	1d
(WHERE) SRI, Menlo Park, CA	1e
(ACTION=ITEMS)	1f
Actions taken, to be taken, etc., dated	1f1
(DISTRIBUTION) ARC=LOG DCE JCN RLL NDM RA3Y JHB	1g
(REFERENCES) <26557,>	1h
(DOCUMENTS) Hard copy given and received	1i
(GIVEN) Date and documents given	1i1
(RECEIVED) Date and documents received	1i2
(REMARKS)	1j
I called Dave to find out what services his group has for aiding us in promotion,	1j1
They arrange for seminars anywhere in the world,	1j2
This includes motel arrangements, luncheons, etc,	1j3
They get the right people given the organization or class of organizations we are interested in,	1j4
They have staff to make suggestions on format, length, style,	

CONTACT: Penning(SRI) on 23 Sept 75, Direct mailing help/promotion

etc, on materials but it is basically from our words and designs, 1j5

Joe Robinson, in our Washington office, handles the government sector. However, either staff can assist us in arrangements, suggestions, etc, 1j6

Dave suggests that we should start out slowly. We can be selective, say 200 invitations if we want 10 people. (Note this is selective to him) 1j7

He suggests that the mailing should come after a phone call. Mail out some 6 weeks ahead of Seminar. Follow up with another phone call some 3 to 4 weeks before the event, 1j8

Mailings under 100 will be handled free to ARC; also the work will be free to us. This is all part of their budget, 1j9

Overall he agreed with Ron Deutsch that many contacts must be made to get people intereted in the seminar. As far as the utility participation, it will take much more because the rate of growth that I indicated to him we desired (some 25 to 50 new slots), 1j10

RLL 24-SEP-75 16:26 26558

CONTACT: Penning(SRI) on 23 Sept 75, Direct mailing help/promotion

(J26558) 24-SEP-75 16:26;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /ARC-LOG([INFO-ONLY]) DCE([INFO-ONLY
]) JCN([INFO-ONLY]) RLL([INFO-ONLY]) NDM([INFO-ONLY]) RA3Y(
[INFO-ONLY]) JHB([INFO-ONLY]) ; Sub-Collections: SRI-ARC
ARC-LOG; Clerk: RLL; Origin: < LIEBERMAN, PENNING,NLS;3, >,
24-SEP-75 16:22 RLL ;;;;####;

26558 Distribution

James C. Norton, Log Augmentation, Douglas C. Engelbart, James C. Norton, Robert N. Lieberman, N. Dean Meyer, Raymond R. Panko, James H. Bair,

KWAC attendance by Lynne Sims and Pete Lambert

We are going ahead with making plans for all three of us to attend, as in the USAF, it is much easier to unmake plans at the last minute than to make them. I hope, however, that there will be no need to do any unmaking.

Larry

KWAC attendance by Lynne Sims and Pete Lambert

Jim

1

I have gotten a roundabout message via Lynne Sims and Ann Weinberg that there may be some problem with Maj Pete Lambert and Lynne attending the coming Kwac meeting in Boston. As far as I can gather, the problem is that they are not officially Architects and that the meeting is limited to those thus blessed.

1a

I would like very much for these two people to attend, as they will be taking on the Architect duties for all LG users (including the AFM 66-1 group), and all other AFSDC users, respectively, allowing me to spend more time working on the overall NSW system and NLS's role in it, rather than getting bogged down in developing and maturing isolated applications, answering user questions, helping with training, etc.

1b

I also think their presence would be valuable to the meeting, as they have been the two Center people who have been most intimately involved with managing the AFM 66-1 stuff, the Basetop DPP inputs, and helping with the PR manuals. As such, they have a good feel for the problems encountered in these efforts, and the environment into which NLS must fit to be accepted as a valuable part of the Design Center's operational Tools.

1c

Is there some way we could get Lynne and Maj Lambert to be declared bonified Architects so that they could attend the meeting? please contact me if there is any problems I could help resolve.

1d

Thanks

1e

Larry

1e1

LAC 24-SEP-75 12:40 26559

KWAC attendance by Lynne Sims and Pete Lambert

(J26559) 24-SEP-75 12:40;;; Title: Author(s): Lawrence A.
Crain/LAC; Distribution: /JCN([ACTION]) POOH([INFO-ONLY]) MAS2(
[INFO-ONLY]) PGL([INFO-ONLY]) ; Sub-Collections: NIC; Clerk:
LAC; Origin: < CRAIN, KWAK,NLS;4, >, 24-SEP-75 12:36 LAC
;;;;####;

26559 Distribution

James C. Norton, Ann Weinberg, Marilynne A. Sims, Pete G. Lambert,

DAP 24-SEP-75 16:04 26560

GRE Newsletter & DPCS Subcollection

Response to (26550,)

GRE Newsletter & DPCS Subcollection

Please feel free to add <journal,26547,> to the DPCS Subcollection. Incidentally, I never heard of said subcollection,,,indeed, I've never had occasion to use the subcollection concept at all. Are there others? Are they indexed or otherwise documented?

1

DAP 24-SEP-75 16:04 26560

GRE Newsletter & DPCS Subcollection

(J26560) 24-SEP-75 16:04;;; Title: Author(s): David A. Potter/DAP;
Distribution: /DVN([ACTION]) ; Sub=Collections: NIC; Clerk: DAP;

26560 Distribution
Dirk H. Van Nouhuys,

RLL 24-SEP-75 17:31 26561
AKW seminar

CONTACT: Dept. of Interior, Telfer on 12 Aug 75,
interest

Found this old report I never journalized.

CONTACT: Dept, of Interior, Telfer on 12 Aug 75, AKW seminar
interest

(DOI) Contact report 26561	1
(DATE) 12 Aug 75	1a
(BY) Lieberman	1b
(ATTENDEES) Full name of organization, address, phone number as substatements	1c
Ray Telfer - DOI=ADP	1c1
Office of ADP Management	1c1a
Dept, of Interior	1c1b
18th and C Street NW	1c1c
Room 5322	1c1d
Washington, DC 20240	1c1e
202-343-6051	1c1f
Robert Lieberman - SRI=ARC	1c2
(MEDIUM) PHONE	1d
(WHERE) SRI, Menlo Park, CA and Washington, DC	1e
(ACTION=ITEMS)	1f
Send documents	1f1
(DISTRIBUTION) ARC=LOG DCE JCN RLL	1g
(REFERENCES)	1h
(DOCUMENTS) Hard copy given and received	1i
(GIVEN) Date and documents given	1i1
(RECEIVED) Date and documents received	1i2
(REMARKS)	1j
I called for Rieche and got Telfer,	1j1

CONTACT: Dept. of Interior, Telfer on 12 Aug 75, AKW seminar
interest

Rieche is the head of the office. He has two people under him
that review RFP's from government before they go out. 1j2

Telfer reviews the scientific and engineering ADP RFPs and Bill
Coleman reviews the business area. 1j3

They are interested in any system such as ours. 1j4

I will send him literature. 1j5

His reaction was that the seminar (AKW seminar for Aug 75) was
too expensive but please send announcement. 1j6

RLL 24-SEP-75 17:31 26561

CONTACT: Dept. of Interior, Telfer on 12 Aug 75, AKW seminar
interest

(J26561) 24-SEP-75 17:31;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /ARC-LOG([INFO-ONLY]) DCE([INFO-ONLY
]) JCN([INFO-ONLY]) RLL([INFO-ONLY]) ; Sub-Collections:
SRI-ARC ARC-LOG; Clerk: RLL; Origin: < LIEBERMAN, DOI,NLS;3, >,
24-SEP-75 17:26 RLL ;;;;####;

26561 Distribution

James C. Norton, Log Augmentation, Douglas C. Engelbart, James C.
Norton, Robert N. Lieberman,

Contact Report: Hitachi, Yutaka Kuwahara, 24-SEP-75

(HITACHI) Contact report	1
(DATE) 24-SEP-75	1a
(BY) White	1b
(ATTENDEES)	1c
Jim White (JEW) = SRI-ARC	1c1
Yutaka Kuwahara = HITACHI	1c2
Manager, Representative Office Hitachi, Ltd. Central Research Laboratory Suite 514 2672 Bayshore Frontage Rd. Mt. View, CA 94043 (415) 968-2306	1c2a
(MEDIUM) FACE-TO-FACE	1d
(WHERE) SRI, Menlo Park, CA	1e
(ACTION=ITEMS)	1f
Possible follow up by RWW, JCN or DCE should he request a second appointment.	1f1
(DISTRIBUTION) ARC-LOG DCE JCN RLL RWW	1g
(REFERENCES) none	1h
(DOCUMENTS) Hard copy given and received	1i
(GIVEN) by mail, 24-SEP-75	1i1
(14724,) The Augmented Knowledge Workshop, DCE, RWW, JCN.	1i1a
(24937,) The ARC OFFICE-1 Workshop Utility Service; 1974 ARPA Project Summary, JCN.	1i1b
The National Software Works. Balzer and Warshall	1i1c
(24855,) The Procedure Call Protocol, Version 2, JEW.	1i1d
(31507,) The Maintenance of Duplicate Databases, Johnson and Thomas.	1i1e

Contact Report: Hitachi, Yutaka Kuwahara, 24-SEP-75

(RECEIVED) none

112

(REMARKS)

11

Mr. Kuwahara was given my name by Eric Harslem and Mark Krilanovich at Rand, and we spent about an hour and a half this morning exchanging information about Hitachi's budding interest in distributed computation, and ARC's NSW and AKW pursuits.

111

Hitachi is currently developing one or more large scale, general purpose, multi-processing, multi-processor computers to be marketed in about five years. In actual application (he used Japan's banking system as an example), groups of these machines will be interconnected to form a network of computation centers, regional data bases, specialized resources (e.g. compilers, high-speed number crunchers), and geographically distributed access points.

112

He was interested, therefore, in hearing about our work in the areas of distributed systems and data bases. I outlined for him our NSW efforts and longer-range AKW goals, and introduced him to the workshop, CLI, and DPS concepts. I will also gather up some of the relevant documentation and mail it to him.

113

He seems to be exploring the possibility of using the ARPANET as a test bed for conducting experiments in distributed computing in preparation for their work with the new Hitachi computers. He also expressed an interest in establishing a working relationship with SRI in this area. He indicated that he would like to digest the information he received today, and then return at a later date to explore some of these other issues. RWW, JCN, and/or DCE should probably receive him next time if he does indeed return.

114

Contact Report: Hitachi, Yutaka Kuwahara, 24-SEP-75

(J26562) 24-SEP-75 17:36;;; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /ARC=LOG([INFO=ONLY]) DCE([INFO=ONLY])
JCN([INFO=ONLY]) RLL([INFO=ONLY]) RWW([INFO=ONLY]) ;
Sub-Collections: SRI=ARC ARC=LOG; Clerk: JEW; Origin: < JWHITE,
CTKREP,NLS;3, >, 24-SEP-75 17:34 JEW ;;;;###;

26562 Distribution

James C. Norton, Log Augmentation, Douglas C. Engelbart, James C.
Norton, Robert N. Lieberman, Richard W. Watson,