I THINK I HAVE LEARNED HOW TO SEND MESSAGES AND GET GUEST MESSAGES. CAN YOU GIVE ME A CLUE HOW TO GET DHS MESSAGES. (TURNS OUT I ALREADY HAVE AN IDENT.) 1

(J14253) 2-FEB-73 9:14; Title: Author(s): ARC, Guest O./ARCG; Distribution: North, Jeanne B./JBN; Sub-Collections: SRI-ARC; Clerk: ARCG;

CSK 2-FEB-73 15:12 14254

Hi. My rfc surveying the implementations of ncps is about ready for distribution. You have requested to be sent a pre-release copy. You may access the rfc by doing a "load file <ucla-nmc>cskrfc". The easiest way to get a readable listing is to do an "output device tty". Please send your comments or suggestions for additional questions to me soon as I would like to get this in the mail. Thanks. 1

(J14254) 2-FEB-73 15:12; Title: Author(s): Kline, Chuck S./CSK; Distribution: Blanc, Robert P., Bressler, Robert D. (Bob), Poh, Susan S./RPB RDB2 SSP; Sub-Collections: NIC; Clerk: CSK;

DVN 2-FEB-73 16:26 14255

Subtracting Directives; deldir and thoughts of the future

I ran deldir on a file composed of the first three branches of SPQR. With the load average around 4 it took 5 cpu secoonds and got everthing expcept "<PGN=PGN-1>" and did not seem to gobble up anything else. Good going but not perfect. 1

The resulting file is (vannouhuys, dir,) if you want to see. 1a

I chatted last night about this problem with Doug. He urged that the long term solution to the problem of having files both readibly and heavilly loaded with output processor instructions is to either: 2

attach markers, or marker-like pointers, to points in the text where directives should take effect and have the markers call the proper directives (or the proper procedures) at processing tme. 2a

or have classes of text which could be filtered in and out at will. 2b

He's right of course, but I suspect that Walter will not want to implement either of those thoughts soon enough to make your present effort usless. 3

DVN 2-FEB-73 16:26 14255

Subtracting Directives; deldir and thoughts of the future

(J14255) 2-FEB-73 16:26; Title: Author(s): Van Nouhuys, Dirk H./DVN; Distribution: Meyer, N. Dean, Kelley, Kirk E., Feinler, Elizabeth J. (Jake), Lehtman, Harvey G., Bass, Walt, Engelbart, Douglas C./ndm kirk jake hgl wlb dce ; Sub-Collections: DPCS SRIARC ; Clerk: DVN;

DVN 2-FEB-73 16:52 14256

An Agenda Item for the PSO Meeting Monday at 4:00

In addition to our usual exchange of information abot what we have been doing, I would like us to consider the effect of Barabara's leaving on our work load and job mix. 1

Could each of us come prepared to say a word about what pieces of Barabara's job have fallen t them? 2

DVN 2-FEB-73 16:52 14256

An Agenda Item for the PSO Meeting Monday at 4:00

(J14256) 2-FEB-73 16:52; Title: Author(s): Van Nouhuys, Dirk H./DVN; Distribution: Byrd, Kay F., Hoffman, Carol B., Lane, Linda L., Kelley, Kirk E., Lee, Susan R., Jernigan, Mil E., Kudlick, Michael D., Norton, James C., North, Jeanne B./kfb cbh lll kirk srl mej mdk jcn jbn ; Sub-Collections: SRI-ARC; Clerk: DVN;

EHF 2-FEB-73 13:00 14257

uPDATE OF FILES

bUZ, WE HAVE UPDATED YOUR NLS FILES IN <MITRE-TIP>. LET US KNOW WHEN YOU HAVE COPIED THEM SO THAT WE WILL DELETE THEM AND SAVE SYSTEM SPACE.

THANKS,

ERNIE FORMAN 1

EHF 2-FEB-73 13:00 14257

uPDATE OF FILES

(J14257) 2-FEB-73 13:00; Title: Author(s): Forman, Ernest H./EHF; Distribution: Iseli, John, Silberski, Robert/JI RS2; Sub-Collections: NIC; Clerk: RS2;

EHF 2-FEB-73 13:16 14258

uPDATE OF FILES

bUZ, WE HAVE UPDATED YOUR NLS FILES IN <MITRE-TIP>. LET US KNOW WHEN YOU HAVE COPIED THEM SO WE WILL DELETE THEM AND SAVE SYSTEM SPACE.

THANKS,
ERNIE FORMAN 1

EHF 2-FEB-73 13:16 14258

uPDATE OF FILES

(J14258) 2-FEB-73 13:16; Title: Author(s): Forman, Ernest H./EHF;
Distribution: Owen, A. D. (Buz)/ADO; Sub-Collections: NIC; Clerk: RS2;

information request

Bob Gardner and Karen Kim at UCLA are investigating computer system modeling and simulation tools. Their interest is in the use of these tools for the design of computer systems. Any such modeling and simulation tools, incl. digital system description languages, which are available at your site or that you know of (for evaluation purposes, not production use) are of interest to these two researchers. Please forward any user documentation to :Karen Kim, 3680 boelter hall,computer science dept.,univ. of california, los angeles,calif. 90024 or send journal mail to jon postel (ident=jbp). 1

information request

(J14259) 2-FEB-73 15:59; Title: Author(s): Postel, Jonathan B./JBP; Distribution: Martin, Reg E., Leichner, Gene, Falk, Gil, Iseli, John, Donnelley, Jed E., Kantrowitz, William, Wolfberg, Michael S., Feinroth, Yeshiah S., Hurt, James, Hearn, Anthony C., Stein, James H., Shoshani, Arie, Harslem, Eric F., Metcalfe, Robert M. (Bob), Reussow, Bradley A., Reins, E. R. (Dick), Kadunce, Daniel L., McCutchen, Samuel P., Petregal, George N., Madden, James M., Young, Michael B., Padlipsky, Michael A., Stevenson, Schuyler, Deutsch, L. Peter, Davidson, John, O'Sullivan, Thomas, Seroussi, Sol F., Bradner, Scott, Thomas, Robert H., Thomas, John C., Romanelli, Michael J., Stoughton, Ronald M., Owen, A. D. (Buz), Fink, Robert L., Meir, Jaacov, North, Jeanne B., Crocker, Steve D., Lawrence, Thomas F., McConnell, John W., Ollikainen, Ari A. J., White, James E. (Jim), Hathaway, A. Wayne, Foulk, Patrick W., Winter, Richard A., Van Zoeren, Harold R., McKenzie, Alex A., Winett, Joel M., Bhushan, Abhay K., Pyke, Thomas N., Wilber, B. Michael, Feigenbaum, Edward A., Braden, Robert T., Pepin, James M., Wessler, Barry D., Melvin, John T./NLG; Sub-Collections: NIC NLG; Clerk: JBP;

JEW 2-FEB-73 10:58 14260

SMFS Accessibility and 'Unsupported Filename'

As mentioned in RFC 409 (see -- JOURNAL,12401,), I would be more than pleased to make SMFS available to any TENEX installation that cares to support it. Yours is the first inquiry I've received since the documentation went out last month, and I haven't pushed the issue myself. I'll talk with BBN and see if I can get it entrenched with them. 1

'Unsupported filename' means you specified a file whose name contains characters other than alphabetics and numerics (dash, I'll bet) (again, see RFC 409, Section II, Item 2). The problem is that I have to map TENEX filenames into SMFS pathnames at UCSB, where the name space is smaller than in TENEX -- only alphamerics are allowed. I have no way of mapping filenames containing punctuation into pathnames acceptable at UCSB, hence 'unsupported filename'. 2

The only way out of that problem for the user is to store the file at UCSB with a slightly different name (i.e, perform a mapping himself), or rename the file in TENEX first. 3

JEW 2-FEB-73 10:58 14260

SMFS Accessibility and 'Unsupported Filename'

(J14260) 2-FEB-73 10:58; Title: Author(s): White, James E. (Jim)/JEW; Distribution: Postel, Jonathan B./jbp ; Sub-Collections: SRI-ARC; Clerk: JEW;
Origin: <WHITE>POSTEL.NLS;3, 2-FEB-73 10:55 JEW ;

JEW 2-FEB-73 11:58 14261

Greetings from California

Hi, Susan If you've gotten this message, then the Journal is healthy as far as you're concerned. See you next week at SRI.
--Jim 1

JEW 2-FEB-73 11:58 14261

Greetings from California

(J14261) 2-FEB-73 11:58; Title: Author(s): White, James E. (Jim)/JEW; Distribution: Poh, Susan S./ssp ; Sub-Collections: SRI-ARC; Clerk: JEW;

JEW 2-FEB-73 16:18 14262

Proposed Mechanism for Network Journal Delivery

This is an implementation suggestion, along the lines of our discussion on Thursday, for Journal DELIVERY; Journal SUBMISSION is not dealt with in this note.

Proposed Mechanism for Network Journal Delivery

I suggest the following as a possible interface between Online Journal Delivery and Mailer (which I propose to rewrite) running under SYSJOB: 1

To cause a sequential text file to be delivered as mail via the NET to a list of users, a process (in the case at hand, Online Journal Delivery) does the following: 1a

(1) Creates a sequential file whose designator is of the form: 1a1

<OUTGOING-MAIL>id.SEND;version 1a1a

As far as Mailer is concerned, "id" is arbitrary. But, by convention, if Online Journal Delivery creates the file (as opposed to SNDMSG, fo example), "id" should be: 1a1a1

'NIC' number 1a1a1a

(2) Formats the file as follows: 1a2

HEADER: <SP> <text-h> <ESC>
DISTRIBUTION: <SP> <EOL>
<SP> <host-1> <SP> <user-1> <EOL>
<SP> <host-2> <SP> <user-2> <EOL>
...
ACKNOWLEDGE: <SP> <host-s> <SP> <user-s> <EOL>
TEXT: <SP> <text-m> <end-of-file> 1a2a

<host-i> is a decimal host address or standard host name. 1a2a1

<user-i> is a character string that the server FTP process at host-i is expected to recognize as identifying a user in its system. In general, this will be neither a TENEX directory name nor an NLS ident. 1a2a2

<host-s> and <user-s> identify the sender, to whom Mailer will make acknowledgment when delivery is complete. 1a2a3

Online Journal Delivery should set the 'ACKNOWLEDGE:' field to null (i.e., 'ACKNOWLEDGE: <SP> <EOL>') if the SENDER's Journal delivery attribute is 'Online', as opposed to 'Network'. 1a2a3a

The 'ACKNOWLEDGE:' field can legally be missing, as far as Mailer is concerned. 1a2a3b

<text-h> is a header that will be prefixed to the body of the mail when delivered to the addressees, and to delivery status information when acknowledgment is made to the sender. 1a2a4

As far as the delivery process is concerned, <text-h> is arbitrary. Online Journal Delivery should make <text-h> similar (if not identical) to the statement that normally gets created in the JOURNAL branch of the addressee's initial file, less the message or link, e.g.: 1a2a4a

RWW 1-FEB-73 8:27 14174
Seminar Wed Feb 7 on NLS Internal Measuremnts 1a2a4a1

<text-m> is the body of the mail and is what will be delivered, along with the header, via FTP to the list of users under 'DISTRIBUTION:'. 1a2a5

<text-m> is the text of a message, submitted with 'Submit Message', or the contents of a file, submitted with 'Submit File'. 1a2a5a

We may run into problems delivering very long items of mail. For example, our own FTP server process (and every other TENEX's) truncates mail that exceeds about eight pages, I think, on the assumption that a faulty or malicious user FTP process is at the other end of the connection. 1a2a5b

Online Journal Delivery may eventually want to deliver through the Net only NOTIFICATION that a very large piece of mail awaits the user at the NIC, and allow the user to do what he wants with it (e.g., fetch it himself via FTP, once the NLS<-->seq conversion stuff is accessible to FTP). 1a2a5c

Mailer (rewritten) will do the following: 1b

(1) Awaken itself frequently (more frequently than once an hour, since it only has to determine whether <OUTGOING-MAIL> has any 'SEND' files in it or not -- not much CPU required) to initiate Network delivery of mail queued for it. 1b1

(2) Attempt to deliver each piece of mail to each of its addressees via the MAIL facility of the existing, Network-standard File Transfer Protocol. 1b2

(3) Retry deliveries that fail because the addressee's host is disconnected, malfunctioning, etc. 1b3

After 'n' unsuccessful delivery attempts, which might span a period, for example, of several days or longer, delivery to that user will be abandoned as hopeless. 1b3a

(4) Maintain in <OUTGOING-MAIL> during the delivery process (which may take days), a sequential status file (with a name identical to that of the source file, but with an extension 'SENDING'), formatted as follows: 1b4

HEADER: <SP> <text-h> <ESC>
DISTRIBUTION: <SP> <EOL>
<SP> <host-s> <SP> <user-s> <EOL>
TEXT: <SP> <text-s> <end-of-file> 1b4a

<text-h>, <host-s>, and <user-s> are copied verbatim from the 'SEND' file. (The 'DISTRIBUTION:' field here will be null if the 'ACKNOWLEDGE:' field was.) 1b4a1

<text-s> is status information describing the delivery and contains a header, and, for each addressee: 1b4a2

(a) time and date the item was delivered (i.e., accepted by the appropriate FTP server process), or abandoned, and which of those two things happened 1b4a2a

(b) how many delivery attempts have been made so far, or were made before the item was disposed of for a particular addressee 1b4a2b

Note that, unless the 'DISTRIBUTION:' field is null, the format of the 'SENDING' file is such that it would be a valid 'SEND' file if its extension were changed. 1b4a3

At any point during the delivery process, an interested party can check on the status of delivery by copying the 'SENDING' file to his teletype. 1b4b

(5) When deliveries to all addressees for a piece of mail

have been either completed or abandoned, Mailer does the following: 1b5

(a) Deletes and expunges the 'SEND' file 1b5a

(b) Acknowledges delivery to the sender by doing one of the following, depending on the 'ACKNOWLEDGE:' field in the 'SEND' file: 1b5b

(i) If the field was absent entirely, Mailer does not acknowledge delivery at all 1b5b1

(ii) If the field was present and NOT null, Mailer delivers the acknowledgment by the same mechanism it uses to deliver the mail itself. It need only change the status file's extension from 'SENDING' to 'SEND'. 1b5b2

THIS piece of mail has an ABSENT 'ACKNOWLEDGE:' field, so that the acknowledgment won't itself be acknowledged. 1b5b2a

(iii) If the field was present but null, Mailer allows Online Journal Delivery to acknowledge delivery via the sender's initial file. 1b5b3

Mailer simply changes the 'SENDING' file's extension to 'SENT'. 1b5b3a

Online Journal Delivery spots the file on it's next time around, locates the sender's directory and initial file by noting the sender's IDENT contained in <text-h> and consulting the Ident File, concatenates <text-h> and <text-s>, and inserts the result as a statement in the AUTHOR branch of the sender's initial file. 1b5b3b

Every 'SEND' file dropped into <OUTGOING-MAIL> with a null 'ACKNOWLEDGE:' field is guaranteed, sooner or later, to spawn a 'SENT' file. 1b5b3c

Proposed Mechanism for Network Journal Delivery

(J14262) 2-FEB-73 16:18; Title: Author(s): White, James E. (Jim)/JEW; Distribution: Irby, Charles H., Wallace, Donald C. (Smokey), Hopper, J. D., Watson, Richard W., Kudlick, Michael D./chi dcw jdh rww mdk ; Sub-Collections: SRI-ARC; Clerk: JEW;
Origin: <WHITE>NETDEL.NLS;5, 2-FEB-73 16:12 JEW ;

Wrap around overwrite on Imlac from TENEX

Wrap around overwrite from TENEX on Imlac. 1

With SNDMESS. It currently is not possible to read messages with the appropriate commands at Exec level. The write rate is too fast to catch the message before the screen paginates to blank. 1a

It is difficult to enter a message because of overwrite, see next item. 1a1

With LINK. When entering strings of text at Exec level up to 10 characters are not visable seemingly because Tenex line length is longer than that of the Imlac; Tenex writes the last part of a line over the beginning of that line rather than starting a new line. A ** appears after about ten characters of overwrite. Perhaps the greatest problem is that when receiving a link, enough of the text is lost to lose inteligibility. 1b

JHB 2-FEB-73 6:57 14263

Wrap around overwrite on Imlac from TENEX

(J14263) 2-FEB-73 6:57; Title: Author(s): Bair, James H./JHB;
Distribution: Kaye, Diane S., Lehtman, Harvey G., Irby, Charles H.,
Stone, Duane L./bugs dls ; Keywords: Imlac TENEX bugs;
Sub-Collections: RADC BUGS; Clerk: JHB;

JLM 2-FEB-73 5:53 14264

test

this is a sample jounal message

JLM 2-FEB-73 5:53 14264

test

(J14264) 2-FEB-73 5:53; Title: Author(s): McNamara, John L./JLM ;
Distribution: Stone, Duane L./dls ; Sub-Collections: RADC; Clerk: JLM
;

NJN 2-FEB-73 8:45 14265

nLS IN UPPER CASE?

cAN YOU TELL ME WHAT CASE THIS MESSAGE CAME IN?

NJN 2-FEB-73 8:45 14265

nLS IN UPPER CASE?

dIRK-- THERE IS A PROBLEM USING THE NIC WITH UPPER ONLY TERMINALS. EVEN IF YOU TELL TENEX YOU ARE A TERM TYPE 33, IT DOESN'T MAP CHARACTERS INTO LOWER CASE. IN NLS IF I GIVE A STRING OF VIEWSPECS IT TAKES THE FIRST ONE AS LOWER CASE AND THE REST AS UPPER. VERY STRANGE AND IT SOUNDS LIKE A BUG TO ME. COULD YOU CHECK IT OUT PLEASE? THANKS MUCHLY --NANCY
P.S. SNDMSG FROM WALLACE WORKS VERY WELL. BUT NOT EVERY ONE CAN USE SMOKEY'S ACCOUNT. 1

nLS IN UPPER CASE?

(J14265) 2-FEB-73 8:45; Title: Author(s): Neigus, Nancy J./NJN; Distribution: Van Nouhuys, Dirk H./DVN; Sub-Collections: NIC; Clerk: NJN;

files

Ernie:
As far as I can tell, you must of forgotten to update my files after sending your message, or the ARC has reloaded files, or the Journal has added something without changing the write date. Anyway, please update the following:

ADO.NLS;47
LINK-IMNLS.NLS;6

Also, you may deletee (MITRE-TIP)JWORKADO.PC which doesnt correspond to an NLS file anyway. Since I have changed the "user" entry in the Ident file for my initials, the Journal should leave that file alone now. Thanks for your assistance and patience.
Buz 1

ADO 3-FEB-73 1:01 14267

files

(J14267) 3-FEB-73 1:01; Title: Author(s): Owen, A. D. (Buz)/ADO;
Distribution: Forman, Ernest H./EHF; Sub-Collections: NIC; Clerk: ADO;

ADO 3-FEB-73 1:33 14268

Ron: 1

Thanks for sending the tape: what I really wanted was exactly what you sent; I probably forgot to mention IMPDIAG when I originally asked. Our NCP won't be ready for a while, but we want to test the interface when it is installed, if possible, . Amazingly enough, the interface arrived here Thursday, about two weeks before we expected it (apparantly undamaged by the way.) 2

Buz Owen 3

(J14268) 3-FEB-73 1:33; Author(s): Owen, A. D. (Buz)/ADO;
Distribution: Stoughton, Ronald M./RMS; Sub-Collections: NIC; Clerk:
ADO;

DHC 3-FEB-73 13:37 14269

Almost Auto- Loggin

i liked the ability to enter nls and signon in one fell swoop, by entering 'nls <c/r>'. It makes things only one step away from automatically entering nls when you connect to the system. d/ 1

DHC 3-FEB-73 13:37 14269

Almost Auto- Loggin

(J14269) 3-FEB-73 13:37; Title: Author(s): Crocker, David H./DHC;
Distribution: Kaye, Diane S., Lehtman, Harvey G., Irby, Charles H./BUGS;
Sub-Collections: NIC BUGS; Clerk: DHC;

DHC 3-FEB-73 13:56 14270

Greetings.
I just looked at your NETREF. You are being much neater and more verbose than I (me?). Also, we are using caps. vs. lower case in exactly the opposite manner. I am using caps to indicate literals. If it matters very much to you, let me know. Oneof us should reverse things.

How goes things? 1

(J14270) 3-FEB-73 13:56; Author(s): Crocker, David H./DHC;
Distribution: Neigus, Nancy J./NJN; Sub-Collections: NIC; Clerk: DHC;

DHC 3-FEB-73 14:48 14271

NETREF

Jeanne; We have begun the Quick reference book and divided sites up. I got the NIC and was just starting on info for it. It occurred to me that you may have suggestions. Also, you may already have information that can be directly entered into the file. Would you please take a look at what I hve so far? (Ucla-nmc,Netref,Sri-arc). The beginning of the file has format information.

Thanks. d/ 1

NETREF

(J14271) 3-FEB-73 14:48; Title: Author(s): Crocker, David H./DHC; Distribution: North, Jeanne B./JBN; Sub-Collections: NIC; Clerk: DHC;

JBP 3-FEB-73 0:58 14272

your copy

JBP 2-FEB-73 15:59 14259
information request
Message: Bob Gardner and Karen Kim at UCLA are investigating computer system modeling and simulation tools. Their interest is in the use of these tools for the design of computer systems. Any such modeling and simulation tools, incl. digital system description languages, which are available at your site or that you know of (for evaluation purposes, not production use) are of interest to these two researchers. Please forward any user documentation to :Karen Kim, 3680 boelter hall,computer science dept.,univ. of california, los angeles,calif. 90024 or send journal mail to jon postel (ident=jbp).
*****Note: Author Copy*****

1

JBP 3-FEB-73 0:58 14272

your copy

(J14272) 3-FEB-73 0:58; Title: Author(s): Postel, Jonathan B./JBP; Distribution: Kim, Karen, Gardner, Robert I./KK RIG; Sub-Collections: NIC; Clerk: JBP;

JBP 3-FEB-73 1:03 14273

bob:

i got your rfc about official surveyors (aside about computer speeds -- memo is dated 19 dec 72 i first see it 2 feb 73 ?) i like what you say, please contact bill naylor (our measurement honcho) directly nic ident = wen, phone = (213)8252368. 1

(J14273) 3-FEB-73 1:03; Author(s): Postel, Jonathan B./JBP;
Distribution: Bressler, Robert D. (Bob)/RDB2; Sub-Collections: NIC;
Clerk: JBP;

would it be too difficult to make an attempt to get the authors nic ident on every rfc ? i think that would help get dialog flowing. 1

(J14274) 3-FEB-73 1:07; Author(s): Postel, Jonathan B./JBP;
Distribution: North, Jeanne B., White, James E. (Jim), North, Jeanne
B./NICSTA JEW JBN; Sub-Collections: NIC NICSTA; Clerk: JBP;

peter
i agree with your idea about getting the nic to coordinate the information request and replies and i share the very real concerns you raise about being exploited for non research purposes. --jon 1

(J14275) 3-FEB-73 1:09; Author(s): Postel, Jonathan B./JBP;
Distribution: Deutsch, L. Peter/LPD; Sub-Collections: NIC; Clerk: JBP;

NATO FOREIGN JOURNALIST TOUR at ARC Feb 2 3:00-4:00 1

The visitors were shown the ARC system in the conference room for 45 minutes. The Projection TV was well received. Many took notes. Several questions-- like would our stuff get out to government users soon? were asked. The ARPANET, RADC use and the Utility were discussed. They seemed impressed with the potential.. as journalists, I think they saw the possible impact on thier work.. several questions were concerned with how easy/hard is the system to learn. 1a

PARTICIPANTS COUNTRY ADDRESS	NAME	AFFILIATION	
--			2
Austria (ORF)	Gerhard Vogl	AUSTRIAN RADIO-TV	
	Military Affairs Commentator	99 Elisabeth Alee 1130 Vienna	2a
Belgium	Hans-Hagen Bremer Brussels Correspondent	DIE ZEIT 89 Rue Archimede 1040 Brussels	2b
Belgium	Rik Onckelinckx	BELGIAN RADIO-TELEVISION	
	Specialist in U.S. Affairs	Flageyplein 18 1050 Brussels	2c
England	Henry Seymour Stanhope Defense Correspondent	THE TIMES Printing House	
Square		London E.C.4.	2d
Finland	Raino Jakari Vehmas Chief Editor	AAMULEHTI Kuninkaankatu 30 SF - 33100	
Tampere 10		Finland	2e
France PRESSE	Serge Berg	AGENCE FRANCE	
Bourse	Chief, Scientific Section	11 Place de la Paris ZE France	2f
Germany ALLGEMEINE	Dr. Volker Diepes	FRANKFURTER	
	Political Editor	ZEITUNG 6 Frankfurt - 70 Schadowstrasse	2g
Germany BERLIN	Joachim Trenkner	SENDER FREIES	
	Political Reporter	1 Berlin 19	

	& Editor	Haus Des	
Rundfunks			
		Masurenallee	2h
Greece	Harry (Hrair) Papazian	APOGEVMATNI	
	T.V. Newscaster -	National	
Broadcasting &			
	Editor	Television	
Institute			
		14 Mourouzi	
Street			
		Athens, Greece	2i
Holland	Paul Van't Veer	"HET PAROOL"	
	Political Editor	Stadionkade 2"	
		Amsterdam	2j
Iceland	Gunnar Eythorsson	ICELANDIC STATE	
RADIO			
	Foreign News Editor	Skulagata 4	
		Reykjavick,	
Iceland			2k
Italy	Gustavo Selva	TV NEWSCAST,	
RAI-TV			
	Chief Editor	VIA Teulada 66	
		Rome	2l
Turkey	Miss Zeynep Avci	HURRIYET	
NEWSPAPER			
	Chief, Foreign News	Emin Ali Pasa	
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	Section	Bostanci,	
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	Specialist Foreign	Yener Apt.,	
Yenisehir			
	Affairs	Ankara	2o

Spain	Antonio Alferez	"ABC" OF MADRID
	Reporter/Commentator	Calle Provisiones
26		
	Defense, International Affairs for World News Section	Madrid 12 - Spain

2p

ESCORT OFFICERS 3

Telephone Numbers			
Home	Business		
---	---	---	---
			3a
Miss Myriam Johnston 785-0287	(202) 382-7701	(202)	3b
Mr. William Grenoble 534-5044	(202) 632-6590	(202)	3c

FOREIGN PRESS CENTER 4

	Telephone Numbers Business	Home
		4a
Director, R. Ellsworth Miller	(202) 382-7701	(703) 356-0868
		4b
Miss Myriam Johnston, Project Coordinator	(202) 382-7701	(202) 785-0287
		4c

PROGRAM 5

NEW YORK - OMAHA 5a

Sunday, January 28 5a1

Afternoon 5a1a

Arrive (JFK Airport) New York from Europe 5a1a1

Met by Miss Johnston and Mr. Grenoble 5a1a2

4:15 p.m. 5a1b

*Departure by special bus from TWA Terminal to Laguardia Airport 5a1b1

6:00 p.m. 5a1c

Departure United Airlines, Flight #215 5a1c1

8:00 p.m. 5a1d

Arrive Omaha 5a1d1

Pickup by Airport Limousine Service 5a1d2

Check in at Omaha Hilton Hotel
1616 Dodge Street
(402) 346-7600 5a1d3

Evening Free 5a1e

*Participants from Greece and Italy with Escort Officer William Grenoble: 5a1e1

6:55 p.m. 5a1f

Departure United Airlines, Flight #237 5a1f1

8:25 p.m. 5a1g

Arrive Chicago 5a1g1

9:05 p.m. 5a1h

Departure United Airlines, Flight #753 5a1h1

10:24 p.m. 5a1i

Arrive Omaha 5a1i1

OMAHA 5b

Monday, January 29 5b1

11:00 a.m. 5b1a

Meet at the First National Bank of Omaha
(adjacent to hotel)
16th & Dodge Streets 5b1a1

Mr. R. Urban (402) 341-0500 5b1a2

11:15 a.m. 5b1b

Departure by specail Air Force bus from hotel to
Offutt Air Force Base - Strategic Air Command,
Major Ludtke, Informaton Officer (402) 294-4433 5b1b1

12:00 noon 5b1c

"Dutch lunch" at Officers Club - South Nebraska Room 5b1c1

1:15 p.m. 5b1d

Briefings on - SAC Command, Joint Strategic Target
Planning Staff 5b1d1

3:00 p.m. 5b1e

Tour and briefing SAC Underground Command Post 5b1e1

3:45 p.m. 5b1f

Tour and briefing SAC Airborne Command Post (LOOKING
GLASS) 5b1f1

5:00 p.m. 5b1g

Return to Omaha Hilton Hotel 5b1g1

Dinner at Press Club of Omaha if desired
in the First National Bank of Omaha Building
(top floor) 16th & dodge Streets
(402) 345-8587 5b1g2

COLORADO SPRINGS 5c

Tuesday, January 30 5c1

8:00 a.m. 5c1a

Departure by Airport Limousine Service from hotel 5c1a1

9:00 a.m. 5c1b

Departure United Airlines, Flight #437 5c1b1

9:18 a.m. 5c1c

Arrive Denver 5c1c1

9:55 a.m. 5c1d

Departure Frontier Airlies, Flight #619 5c1d1

10:21 a.m. 5c1e

Arrive Colorado Springs, Met by military bus 5c1e1

Check in at Broadmoor Hotel,
Colorado Springs, Colorado 80906
(303) 634-7711 5c1e2

1:30 p.m. 5c1f

Departure by military bus from hotel 5c1f1

Briefings at North American Air Defense Command
(NORAD) 5c1f2

Visit NORAD Cheyenne Mountain Complex 5c1f3

5:00 p.m. 5c1g

Return to hotel by military bus 5c1g1

Optional evening activities: 5c1g2

World Arena - High School Hockey game (8:15 p.m.) 5c1g2a

Winter House - Restaurant and Ski Lodge 5c1g2b

Movie 5c1g2c

Wednesday, January 31	5c2
8:00 a.m.	5c2a
Breakfast in Main Dining Room hosted by the Boradmoor	5c2a1
9:45 a.m.	5c2b
Special Academy bus pickup at hotel	5c2b1
10:30 a.m.	5c2c
Briefing on the Air Force Academy, Fairchild Hall	5c2c1
11:30 a.m.	5c2d
"Dutch lunch" with cadets in Mtichell Hall (Cadet dining hall)	5c2d1
1:00 p.m.	5c2e
Tour of Academy facilities	5c2e1
3:00 p.m.	5c2f
Return to hotel	5c2f1
Evening Free	5c2g

SAN FRANCISCO	5d
Thursday, February 1	5d1
8:00 a.m.	5d1a
Departure from hotel by military bus	5d1a1
8:45 a.m.	5d1b
Departure Continental Airlines, Flight #140	5d1b1
9:10 a.m.	5d1c
Arrive Denver	5d1c1
10:30 a.m.	5d1d
Departure TWA, Flight #457	5d1d1
11:38 a.m.	5d1e
Arrive San Francisco	5d1e1
Pickup by Pacific International bus	5d1e2
Check in at Hotel Cartwright 524 Sutter Street (415) 421-2865	5d1e3
Afternoon Free	5d1f
6:00 p.m.	5d1g
Pickup for dinner in private homes	5d1g1
Home hospitality provided by the International Hospitality Center of the Bay Area, Inc.	5d1g2

PALO ALTO 5e

Friday, February 2 5e1

8:00 a.m. 5e1a

Departure from hotel by Pacific International bus 5e1a1

8:45 a.m. 5e1b

Arrive Hewlett-Packard plant
1501 Page Mill Road
Palo Alto, California 5e1b1

Briefings on research and development in private industry 5e1b2

10:00 a.m. 5e1c

Arrive Hoover Institution on War, Revolution and Peace, Stanford University (415) 321-2300 ext. 2064 5e1c1

Panel discussion with: 5e1c2

Dr. Richard Staar, Associate Director, Moderator 5e1c2a

Dr. Edward J. Bacciocco, Curator of New Left Collection 5e1c2b

Mr. William Ratliff, Deputy Curator of Latin American Collection 5e1c2c

Dr. Peter J. Duignan, Former National War College Visiting Professor 5e1c2d

12:00 noon 5e1d

"Dutch Lunch" at Allied Arts
Cambridge & Arbor Road
(415) 324-2588 5e1d1

2:00 p.m. 5e1e

Arrive Stanford Research Institute (SRI) 5e1e1

Briefings on developments in artificial intelligence (The Robot) and communictions areas 5e1e2

Visit to the Augmentation Research Center
arrive after visit to Artificial Intelligence
Group about 3:00... stay until about 4:00 or when
the group has to leave for their next visit. Jim
Norton Host for ARC 5e1e2a

4:15 p.m. 5e1f

Visit Stanford Linear Accelerator Center 5e1f1

5:15 p.m. 5e1g

return to San Francisco 5e1g1

Evening Free 5e1h

SAN FRANCISCO 5f

Saturday, February 3 5f1

Day Free 5f1a

Sunday, February 4	5f2
11:00 a.m.	5f2a
Pickup at hotel by Pacific International bus	5f2a1
Visit San Francisco and Muir Woods	5f2a2
4:15 p.m.	5f2b
Arrive airport	5f2b1
5:00 p.m.	5f2c
Departure United Airlines, Flight #525	5f2c1
6:04	5f2d
Arrive Los Angeles	5f2d1
Pickup by Embree bus	5f2d2
Check in at Hollywood Roosevelt Hotel 7000 Holywood Blvd. (213) 469-2442	5f2d3
Evening Free	5f2e

LOS ANGELES 5g

Monday, February 5 5g1

Morning Free 5g1a

2:30 p.m. 5g1b

Departure by special bus from hotel 5g1b1

3:00 p.m. 5g1c

The Los Angeles Times
First & Springs Streets 5g1c1

Discussion with Mr. Anthony Day, Editor of the
Editorial Pages, and Senior Editors 5g1c2

Evening Free 5g1d

Tuesday, February 6 5g2

7:30 a.m. 5g2a

Departure from hotel by Embree bus 5g2a1

8:00 a.m. 5g2b

Arrival Lockheed
California Corporation - Bldg. 360
(213) 847-5730 5g2b1

Briefings on Lockheed Aircraft Corporation and current aircraft programs 5g2b2

Tour flight test assembly facilities and flight line 5g2b3

Lunch - hosted by Lockheed 5g2b4

1:00 p.m. 5g2c

Departure by special plane for Palmdale 5g2c1

Visit L-1011 Tristar assembly and flight test facility 5g2c2

4:30 p.m. 5g2d

Return by Embree bus to hotel 5g2d1

Evening Free 5g2e

Wednesday, February 7 5g3

8:45 a.m. 5g3a

Departure from hotel by Embree bus 5g3a1

Arrive Jet Propulsion Laboratory
California Institute of Technology
4800 Oak Grove Drive
Pasadena, California 91103
(213) 354-5011 5g3a2

10:00 a.m. 5g3b

Briefings on past and future unmanned space explorations: Mariner 9 5g3b1

Visit Commad Center	5g3b2
12:00 noon	5g3c
Departure by Embree bus	5g3c1
1:00 p.m.	5g3d
Arrival Disneyland Annaheim, California	5g3d1
Afternoon at the Magic Kindgom Courtesy Walt Disney Enterprises	5g3d2
6:00 p.m.	5g3e
Return by Embree bus to hotel	5g3e1
Evening Free	5g3f
Thursday, February 8	5g4
Morning Free	5g4a
11:30 a.m.	5g4b
Departure from Hotel by Embree bus	5g4b1
12:45 p.m.	5g4c
Departure American Airlines, Flight #336	5g4c1
3:23 p.m.	5g4d
Arrive El Paso	5g4d1
Met by White Sands Missile Rane bus	5g4d2
Check in at Hotel Paso Del Norte 1115 S. El Paso Street (915) 533-2421	5g4d3
Evening Free	5g4e

EL PASO	5h
Friday, February 9	5h1
8:00 a.m.	5h1a
Departure by U.S. Army bus	5h1a1
9:00 a.m.	5h1b
Arrive White Sands Missile Range	5h1b1
-Tour Range Control Center	5h1b2
-Briefing on the Range	5h1b3
-Tour Army/Navy launch complexes	5h1b4
12:00 p.m.	5h1c
"Dutch lunch at Officers Club	5h1c1
1:15 p.m.	5h1d
Tour Environmental Test Laboratories	5h1d1
2:30 p.m.	5h1e
Tour Nuclear Weapon Effects Laboratory	5h1e1
3:15 p.m.	5h1f
Departure by U.S. Army bus	5h1f1
5:10 p.m.	5h1g
Departure Cntinental Airlines, Flight #74	5h1g1
9:00 p.m.	5h1h
Arrive Houston	5h1h1
Pickup by Rapid Translit Lines Special bus	5h1h2

Check in at Houston Oaks Hotel
5011 Westheimer
(713) 623-4300 5h1h3

HOUSTON 5i

Saturday, February 10 5i1

DAY FREE 5i1a

Sunday, February 11 5i2

DAY FREE 5i2a

Monday, February 12 5i3

9:30 a.m. 5i3a

Departure by Rapid Transit Lines bus from hotel 5i3a1

10:30 a.m. 5i3b

Arrive NASA
Houston, Texas 77058 5i3b1

Briefing and tour of Manned Spacecraft Center
Mr. Edward Barker HU3-4241 5i3b2

"Dutch lunch" in NASA cafeteria 5i3b3

2:30 p.m. 5i3c

Return to hotel 5i3c1

5:00 p.m. 5i3d

Departure from hotel by Rapid Transit bus 5i3d1

5:30 p.m. 5i3e

Arrive Press Club of Houston
Rice Hotel - 5th floor
Texas & Travis Streets 5i3e1

Panel discussion 5i3e2

Dinner hosted by Press Club 5i3e3

Tuesday, February 13 5i4

9:15 a.m. 5i4a

Departure from hotel by Rapid Transit Lines 5i4a1

10:00 a.m. 5i4b

Arrive Texas Eastern Transmission Corporation
South National Bank Building - Room 1418
Main & McKinney Streets 5i4b1

Presentation:
Houston Center Project
Mr. Gordon Jennings, President 5i4b2

Presentation:
The Woodlands, a new planned community
Mr. J. Leonard Ivins
Senior Vice-President and Treasurer
Woodlands Development Corporation 5i4b3

12:00 noon 5i4c

Departure by Rapid Transit Lines for airport 5i4c1

1:00 p.m. 5i4d

Lunch at airport Host Hotel 5i4d1

2:30 p.m. 5i4e

Departure Delta Airlines, Flight #482 5i4e1

5:04 p.m. 5i4f

Arrive Atlanta 5i4f1

6:05 p.m. 5i4g

Departure Delta Airlines, Flight #208 5i4g1

7:30 p.m. 5i4h

Arrive Washington (National Airport) 5i4h1

Check in at Hotel Washington

15th Street & Pennsylvania Ave., N.W.
(202) 638-5900 5i4h2

WASHINGTON 5j

Wednesday, February 14 5j1

9:15 a.m. 5j1a

Walk to Foreign Press Center
Room 202, National Press Building
14 & F Streets, N.W. 5j1a1

Administrative meeting - TWA representative
Mr. H. Dralle 5j1a2

11:00 a.m. 5j1b

Briefing on U.S. Foreign Economic Policy
by Representative of U.S. Treasury Department 5j1b1

3:00 p.m. 5j1c

Briefing on Challenges of Modern Society
Mr. Russell Train, Chairman of the Council on
Environmental Quality 5j1c1

4:30 p.m. 5j1d

Briefings on Mutual Balance of Forces Reduction
Mr. Edward Streator, Deputy Director, Office of NATO
& Atlantic Political-Military Affairs 5j1d1

EVENING FREE 5j1e

Thursday, February 15 5j2

8:50 a.m. 5j2a

Departure by special Defense Department bus from
hotel 5j2a1

9:15 a.m. 5j2b

Arrive Pentagon 5j2b1

9:30 - 10:30 a.m. 5j2c

Briefing and discussion with officials from the
office of the Assistant Secretary of Defense (Public
Affairs) 5j2c1

10:45 - 11:45 a.m. 5j2d

Briefing and discussion with officials from the office of the Assistant Secretary of Defense (International Security Affairs) 5j2d1

12:00 noon 5j2e

Lunch in General and Flag Officers Dining-Room (Lounge) 5j2e1

1:30 p.m.
**5j2f

Return to hotel by special Defense Department bus 5j2f1

2:45 p.m. 5j2g

Walk to the Foreign Press Center 5j2g1

3:00 - 4:00 p.m. 5j2h

Briefing on Conference on Security and Cooperation in Europe - Arthur Breisky, Office of NATO Atlantic and Political Military Affairs 5j2h1

4:00 - 5:00 p.m. 5j2i

Briefing on Arms Control - Lawrence Weiler, Counselor of U.S. Arms Control and Disarmament Agency 5j2i1

EVENING FREE 5j2j

Friday, February 16 5j3

9:00 a.m. 5j3a

Departure from hotel by special bus 5j3a1

9:30 a.m. 5j3b

Old Senate Office Building
1st. & Constitution Ave.
Room 457
225-6542 5j3b1

Discussion with Senator Jacob Javits
Chairman of the Committee of Nine 5j3b2

4:00 p.m. 5j3c

Assistant Secretary of State for European Affars
Walter J. Stoessel, Jr. 5j3c1

5:30 p.m. 5j3d

Reception at the Foreign Press Center hosted by
Director r. Ellsworth Miller 5j3d1

NORFOLK 5k

Saturday, February 17 5k1

9:00 a.m. 5k1a

Departure by special bus from hotel 5k1a1

10:00 a.m. 5k1b

Take-off from Andrews Air Force Base 5k1b1

11:15 a.m. 5k1c

Arrive Naval Air Station - Norfolk, Va. 5k1c1

Tour Naval Base and destroyer - submarine pier area 5k1c2

11:45 - 1:00 p.m. 5k1d

Lunch - hosted by SACLANT 5k1d1

1:15 - 1:45 p.m. 5k1e

SACLANT Command briefing 5k1e1

1:45 - 2:15 p.m. 5k1f

CINCLANT Command briefing 5k1f1

2:15 - 3:00 p.m. 5k1g

Discussion with Admiral Cousins, USN, NATO's Supreme Allied Commander Atlantic 5k1g1

3:15 p.m. 5k1h

Departure by special plane 5k1h1

4:30 p.m. 5k1i

Arrive Andrews Air Force Base 5k1i1

Return to hotel by special bus 5k1i2

NATO FOREIGN JOURNALIST TOUR

(J14276) 2-FEB-73 20:55; Title: Author(s): Norton, James C./JCN; Distribution: Engelbart, Douglas C., Watson, Richard W., Norton, James C., Byrd, Kay F./EMC KFB; Sub-Collections: SRI-ARC EMC; Clerk: JCN; Origin: <NORTON>NATOTOUR.NLS;1, 2-FEB-73 20:53 JCN ;HJOURNAL="JCN 5 FEB 73 4:10PM xxxx";

American National Standards Institute (ANSI) Description and History - from ARC 11440: NBS FIPS Index 7/72

Excerpts from (11440,) the NBS Federal Information Processing Standards (FIPS) Index published 1 July, 1972, p.62-67. Recorded here for ARC future use. 1

5.2 American National Standards Institute 2

The development of standards is an activity on which the national economy depends. To industry, standardization provides dollar savings through mass production, production of uniform goods, and reduction of time and materials through standard designs, equipment, procedures, and testing. To the purchasing agent, standards offer increased efficiency by freeing him from preparing individual sketches, descriptions, and specifications for each purchase. The distributor benefits from having to stock fewer varieties and sizes of commodities and from simplified inventories. Every branch of industry and commerce recognizes that standards promote fair trade by providing a common language between buyer and seller and a basis for evaluating competitive vendors. 2a

The above statements are directed at standards in general, but are most pertinent to computers and information processing. As the computer industry grows to maturity, standardization is becoming a more essential factor. Early emphasis during the growth of the industry was in getting each component of a system to work. Now that this has been attained, entire systems must be made to work together. For this, standards must be considered in the initial design of data systems, rather than after they are built. 2b

Today the industry is paying for its earlier neglect of standards by expending untold resources (time, money, and manpower) to build a multitude of black boxes (hardware and software) to provide the interfaces between systems and components. An estimated 25 percent of the present computer power is used to provide systems compatibility. In fact, entire new industries have been established to provide conversion services. Because this situation had reached such tremendous proportions, a committee was formed in 1960 to address this national problem under the auspices of the now American National Standards Institute (formerly the American Standards Association and, from 1966 to 1969, the United States of America Standards Institute). This committee, which was named the USA Standards Committee for Computers and Information Processing with the committee designation X3, was given the task of standardization related to systems,

computers, equipments, devices and media for inormation processing systems. 2c

The Federal Government is a major contributor to the work of the American National Standards Institute (ANSI). The Director of the National Bureau of Standards is a member of its Board of Directors. Representatives from various Govenment departments and agencies participate through the many ANSI councils, boards, committees, subcommittees, and task groups. 2d

Soon after the NBS Center for Computer Sciences and Technology was formed in 1965 and given the responsibility for Federal standardization in this area, the Bureau of the Budget provided policy direction by stating that NBS would participate on and cooperate in the development of national voluntary standards to the extent that such activities were beneficial to the Federal Government. Also, NBS was given the responsibility of monitoring the participateion of Govenment representatives on the different ANSI standardization groups to ensure that the interests of the entire Federal establishment were presented and protected in the field of information processing. The NBS Office of Information Processing Standards was established within the Center to handle this task. 2e

In developing standards for use in the Federal Government that provide economic and effective use of computers and related systems, major emphasis is given to the development and adoption of national voluntary standards that also meet the needs of Federal activities. Developing separate Federal standards would be much faster and simpler than spending months or, in some cases, years in contributing to the development of national voluntary standards. However, separate and different Federal standards eventually cost the Government more in that they lead to tailor-made or customized equipment and services of use only to Government. Not only must the Government guard its interests, but it must also be aware of the industry's need for standards and the role of standardization in promoting international trade and commerce. (The international aspect of computer standardization was the subject of a recent article in FIPS Notes, NBS Technical News Bulletin, February 1970.) 2f

Because of the Government's concern with ANSI's role in standardization, some basic information about ANSI is pertinent. 2g

American National Standards Institute (ANSI) Description and History - from ARC 11440: NBS FIPS Index 7/72

**ANSI is the national clearinghouse and coordinating agency for voluntary standards in the United States. It is a nonprofit (membership) organization incorporated under the laws of the State of New York and is located at 1430 Broadway in New York City. It is a federation of approximately 140 trade associations and professional societies, and over 750 companies, which are dues paying members. Donald L. Peyton is the Managing Director of the Institute. 2h

ANSI was originally organized as the American Engineering Standards Committee (AESC) in 1918 by five engineering societies: American Institute of Electrical Engineers, American Society of Mechanical Engineers, American Society of Civil Engineers, American Society of Mining and Metallurgical Engineers, and American Society for Testing Materials. The AESC's initial purpose was to provide means for coordinating the standards issued by its founders, eliminating confusin and duplication among those standards. Its first act was to invite three Federal Government departments to join and work with the funding societies; the War Department, the Navy Department, and the Department of Commerce accepted the invitation. Enlarged in 1920 by the addition of trade associations, as well as more technical and professional societies, the AESC in 1928 was reorganized as the American Standards Association (ASA) to provide a more workable structure. The principles and procedures that were developed by the founders basically applied to the work of the American Standards Association through 1966, when ASA became the United States of America Standards Institute (USASI). In 1969, the present name, American National Standards Institute, was adopted. 2i

As the national clearinghouse for standards, ANSI provides the machinery for developing and approving standards that are supported by a national consensus. Its constitution states: "In standardization practice a concensus is achieved when substantial agreement is reached by concerned interests according to the judgment of a duly appointed authority. Consensus implies much more than the concept of a simple majority, but not necessarily unanimity." 2j

Technical societies, trade associations, consumer groups, and the like make up the Member Bodies of ANSI. Other clases of members are Company Members. Sustaining Members (individuals or organizations not otherwise eligible for membership but interested in standards development), and Honorary Members. Three councils make up the operating arms of ANSI--the Member Body Council, the Company Member Council, and the Consumer

Council. Each council may establish such boards and committees as are considered necessary to accomplish its program. The Member Body Council is responsible for approving standards, and develops and maintains all procedures relating to the preparation, approval, acceptance, and designation of standards, and the constitution of standards boards and committees. The Company Member Council develops programs to maintain liaison with, and represent the interests of, commerce and industry in ANSI's work. The Consumer Council is responsible for the representation and protection of consumer interest in ANSI's work. The Consumer Council is also concerned with the application of ANSI's procedures for certifying and labeling consumer goods. Both the Company Member Council and the Consumer Council may recommend standards projects to be developed. 2k

The Board of Directors is ANSI's governing body. It may delegate any part of its authority over the conduct of ANSI's affairs. Of the 45 members of the Board, 16 are drawn from the Member Body Council, 12 are nominated by the Company Member Council, four are nominated by the Consumer Council, and four are directors-at-large nominated by the Board of Directors. In addition, the president, the three vice presidents, the Director of the National Bureau of Standards, if willing to serve (ex officio, with vote), the chairman of the three councils, and the past president of ANSI are members of the Board. 2l

Over 2800 American National Standards have been published. Of these, more than one-third were submitted by competent organizations that had developed standards thrugh their own procedures, and supplied evidence of consensus in support of such standards. The balance resulted from the work of sectional committees. 2m

ANSI is the United States Member Body of the International Organization of Standardization (ISO). The United States' viewpoints to be presented in the technical work of the ISO may be developed through the interested ANSI sectional committee, through a competent committee of another standards organization, or through a committee specifically organized as an Advisory Committee to an ISO Technical Committee. The work of the Technical Committees eventually results in ISO Recommendations that may be embodied in the national standards of the ISO Member Bodies. A number of ISO Recommendations have been embodied in American National Standards. For international standardization in the electrical field, ANSI

provides services to the United States National Committee of the International Electrotechnical Commission (IEC). The IEC, an autonomous (non-governmental) organization formed in 1904, serves as the electrical branch of the ISO and devotes its activities solely to the electrical field. 2n

Financial support for ANSI comes from dues paid by Company Members, Member Bodies, and Sustaining Members. An additional source of income comes from the sale of American National Standards. In addition to the annual catalog of American National Standards, ANSI publishes quarterly the Magazine of Standards, which is devoted to the discussion of principles, practice, and application of standardization, as well as news of ANSI and international standards activities. 2o

Annually, ANSI holds a National Conference on Standards that includes presentation of standards problems at the international, national, industry, and company level. The proceedings of these conferences are published and are available to the public. 2p

5.2.1 Information Processing Systems Technical Advisory Board (IPSTAB) 3

To provide direct supervision of the hundreds of ANSI Technical activities, there exists within ANSI a number of Standards Boards, each responsible for several efforts in a general area of standardization. X3, along with the standards committees for office machines, vocabulary for automatic control, and library sciences and documentation, reports to the Information Processing Systems Technical Advisory Board. The scope of the IPSTAB is as follows: 3a

All aspects of systems that transmit, store, or process analog symbolic or encoded representations of information, including satellite or control systems, peripheral equipment, and auxiliary devices that significantly influence the effective utilization of composite information processing systems. 3b

5.2.2 ANSI Standards Committee X3 4

Committee X3 is sponsored by the Business Equipment Manufacturers Association (BEMA). As sponsor, BEMA acts as the secretariat, provides essential administrative support, and is responsible to ANSI for the general administration of X3. 4a

With the express purpose of accelerating and simplifying the

processing of EDP standards, the X3 Systems Advisory Committee (SAC) proposed in 1968 that X3 be reorganized. This recommendation was made after thoroughly studying more than six years of X3 operations. Under the SAC proposal the X3 subcommittees would be realined and their responsibilities absorbed by; (a) Standards Planning and Requirements Committee (SPARC), (b) Standards Steering Committee (SSC), (c) three Group Directors for Hardware, Software, and Systems Groups, and (d) eight Section Managers for related Working Groups. It was SAC's contention that eliminating an intermediate phase of voting at the technical level would accelerate the standards process. 4b

Committee X3 approved the SAC proposal in principle and recommended as a first step the formation of the SPARC and SSC Committees and the dissolution of the Systems Advisory Committee. 4c

BEMA accepted the reorganization plan in principle, but did not agree to the immediate dissolution of the subcommittees. Instead, BEMA propossd that the reorganization be accomplished in two phases--setting up SPARC and SSC (and dissolving SAC) as the first phase, and realining the subcommittees only after the two new committees were functioning. It was BEMA's view that the formation of the Groups and the appointment of Group Directors and Section Managers required careful timing to minimize adverse effects on the ongoing standards development work. 4d

SPARC and SSC were formed and began functioning in the first half of 1969. At the October 1969 meeting of X3 a resolution was approved that proposed a letter ballot on the dissolution of subcommittee X3.4, but the resolution provided that such letter ballot would not be necessary if BEMA would now agree to move ahead with the second phase of the reorganization. Later in October 1969, BEMA agreed. 4e

Consequently, a letter was sent in November 1969 to all X3.4 subcommittee members notifying them of the dissolution of the subcommittee. The letter invited their participation in task groups (technical committees) that would report dirctly to either SPARC or SSC. 4f

In similar fashion, each of the remaining eight subcommittees will also be realined as rapidly as a smooth and nondisruptive transfer of the subcommittee functions can be achieved. Figure

1 shows the structure of X3 after the reorganization is completed. 4g

It is important to recognize that ANSI procedures provide that all members of technical committees (all groups below the X3 level in this case) serve as technically qualified individuals. At the X3 level, members represent associations, professional societies, government agencies, companies, or other bodies having an interest in standards. ANSI procedures further provide that at the standards committee level (X3 in this case), the member bodies are to be categorized as consumers, producers, or general interest members and that no category shall have a majority of votes. It will be noted by reference to the list of present X3 Member Bodies (table 1) that a balance exists between the categories with no category having a simple majority. The reorganization of X3 will have no effect on this balance or the X3 membership. 4h

Government agencies represented on X3 are NBS, the General Services Administration (GSA), and th Department of Defense (DOD). Joseph O. Harrison, Jr., of the NBS Office of Information Processing Standards and Harry S. White, Jr., of the Center for Compter Sciences and Technology participate as the principal and alternate BNS members to X3. Delbert Shoemaker of the ADP Standard Division, Office of Automated Data Management Services, in principal member from GSA, while Jay E. Rice of the GSA Technical Development Division is the alternate member. Robert A. Raup of the Directorate for Data Automation in the Office of the Assistant Secretary of Defense (Comptroller) represents DOD. Wharton A. McGreer is also alternate member. 4i

American National Standards Institute (ANSI) Description and History - from ARC 11440: NBS FIPS Index 7/72

(J14277) 2-FEB-73 20:57; Title: Author(s): Norton, James C./JCN; Distribution: Engelbart, Douglas C., Watson, Richard W., Norton, James C./EMC; Sub-Collections: SRI-ARC EMC; Clerk: JCN;
Origin: <NORTON>ANSI.NLS;1, 2-FEB-73 17:17 JCN ;HJOURNAL="JCN 9 FEB 73 12:51PM xxxx";

Administrative Manager - February 1958 to April 1969: 6a1

Financial performance analysis and reporting 6a1a
Project administration (government and commercial) 6a1b
Proposal cost estimating 6a1c
Budget preparation 6a1d
Computer facility planning and accounting 6a1e
Supervision of clerical staff 6a1f
Liaison with SRI central service activities. 6a1g

Pacific Telephone and Telegraph Company: 6b

Traffic Engineer - June 1955 to February 1958: 6b1

Planning studies for long and short range equipment additions and rearrangements, studies for the California Public Utilities Commission on cost analysis of proposed extended service and new exchanges, forcasting future call volumes and resulting toll circuit and other facility requirements. 6b1a

Traffic Assistant - June 1953 to June 1955: 6b2

Central Office management: supervision of operators, force and load planning, employment, training, performance analysis. 6b2a

Academic background 7

AB Economics, Stanford University: June 1953 7a

Publications 8

1. ARC 5139, D. C. Engelbart and Staff of Augmentation Research Center, "Computer-Augmented Management-System Research and Development of Augmentation Facility," RADC-TR-82, Final Report of Contract F30602-68-C-0286, SRI Project 7101, Stanford Research Institute, Menlo Park, California, April 1970. 8a

2. ARC 5140, D. C. Engelbart and Staff of Augmentation Research Center, "Advanced Intellect-Augmentation Techniques," Final Report NASA Contract NAS1-7897, SRI Project 7079, Stanford Research Institute, Menlo Park, California, July 1970. 8b

3. ARC 8277, D. C. Engelbart and Staff of Augmentation Research Center, "Network Information Center and

Computer-Augmented Team Interaction," Interim Report, Air Force (RADC) Contract F30602-70-C-0219, SRI Project 8457, Stanford Research Institute, Menlo Park, California, July 1971. 8c

4. ARC 10575, D. C. Engelbart and Staff of Augmentation Research Center, "On-line Team Environment - Network Information Center and Computer-Augmented Team Interaction," Final Report, Air Force (RADC) Contract F30602-70-C-0219, SRI Project 8457, Stanford Research Institute, Menlo Park, California, May 1972. 8d

(J14278) 2-FEB-73 21:02; Title: Author(s): Norton, James C./JCN;
Distribution: /; Sub-Collections: SRI-ARC; Clerk: JCN;
Origin: <NORTON>BIOG.NLS;1, 4-DEC-72 7:49 JCN ; HJOURNAL="JCN 6
FEB 73 9:14AM xxxxx";

JCN 4-FEB-73 12:31 14279

Question re: New RADC people in the Identfile

Duane: I noticed several RADC people in the identilfe that I don't recognize. I'm wondering if they are new to our experimental group or if they are just regular occasional RADC Network users. I'm not asking from a critical standpoint.. just curious as to where they fit in. 1

They are: Van Alstine, Liuczi, Calicchia, Johnson, LaMonica, Luther -- and of course I noticed good old Dean Bergstrom there. Are these people really moving into NLS in anticipation of the expanded service we plan to develop at RADC? or what. 1a

JCN 4-FEB-73 12:31 14279

Question re: New RADC people in the Identfile

(J14279) 4-FEB-73 12:31; Title: Author(s): Norton, James C./JCN;
Distribution: Stone, Duane L., Van Nouhuys, Dirk H./DLS DVN(for info);
Sub-Collections: SRI-ARC; Clerk: JCN;

KIRK 3-FEB-73 15:16 14280

NP for viewsec B.

When I get down to the twelvth level in my structured information retrieval files, I of course am using viewspec B, with l or g so that I get some structure. However, structure is somehow automatically turned off at this level. I can see how this would be useful if there were no viewspec B but since there is, this automatically turning off of structure at some arbitraty point is confusing and very inconvenient. Could you please make viewspec B override this feature? Or else eliminate it altogether and teach people to use viewspec B instead. 1

Also, when doing an output quickprint with viewspec B and g or l, all structure is eliminated, unlike what is on the screen. I would like to have structure in quickprint the same as on the screen. 2

KIRK 3-FEB-73 15:16 14280

NP for viewsec B.

(J14280) 3-FEB-73 15:16; Title: Author(s): Kelley, Kirk E./KIRK;
Distribution: Irby, Charles H., Kaye, Diane S./np dsk ;
Sub-Collections: SRI-ARC NP; Clerk: KIRK;

KIRK 3-FEB-73 15:52 14281

Why have Jump to File Link command?

If the only advantage of having the jump to file link command as well as jump to link is so that you can be in the jump to file return mode, then it is a dissadvantage because it still requires an extra keyset stroke to get file return. Am I missing something, or is there a reason to have jump to file link command that jump to link doesn't take care of simpler and more efficiently? 1

KIRK 3-FEB-73 15:52 14281

Why have Jump to File Link command?

(J14281) 3-FEB-73 15:52; Title: Author(s): Kelley, Kirk E./KIRK; Distribution: Irby, Charles H./NP ; Sub-Collections: SRI-ARC NP; Clerk: KIRK;

KIRK 3-FEB-73 16:54 14282

Proposition for re-instating NP file.

Charles and Harvey, 1

I notice that the BUGS file is very dissorganized (Two Newbugs branches, NP branches etc.). Apparently you haven't had the time to take care of it. This is the service I was attempting to offer. I agree however, that I am not involved with them enough to know if, when, which, or how bugs should be taken care of. 2

At any rate, I may be able to take some of the load if we reinstate the NP file and have me organize it in some meaningful hopefully eventually automatic way. This way you could send to NP via secondary distribution those things that people send to BUGS that aren't bugs, and you would not have to deal at all with organizing those things sent originally to NP. 3

However you want to do it is fine with me, but I think people would like to be able to look in a file (read only) and see without too much confusion if their suggestion has already been made or what has been done with it. 4

KIRK 3-FEB-73 16:54 14282

Proposition for re-instating NP file.

(J14282) 3-FEB-73 16:54; Title: Author(s): Kelley, Kirk E./KIRK;
Distribution: Irby, Charles H., Lehtman, Harvey G., Van Nouhuys, Dirk
H., Watson, Richard W., Norton, James C., Michael, Elizabeth K., Kaye,
Diane S., Dornbush, Charles F./chi hgl dvn rww jcn ekm dsk cfd ;
Sub-Collections: SRI-ARC; Clerk: KIRK;
Origin: <KELLEY>NPPROP.NLS;1, 3-FEB-73 16:41 KIRK ;

LPD 2-FEB-73 19:05 14283

Message to Larry Roberts (& anyone else interested)

This letter, and other comments on the past, present, and future of the ARPANET, are available for comment by any interested party.

LPD 2-FEB-73 19:05 14283

Message to Larry Roberts (& anyone else interested)

Dear Larry, 1

I wish to justify my feeling expressed in the last paragraph of RFC 446 (enclosed) that the ARPANET is being used to exploit the research community in a way that has been rare in the past. I use the word "exploit" deliberately because I feel the situation sets an ominous precedent for future ARPA/IPT projects. I will demonstrate my point by comparing the history of the ARPANET with that of two other major projects with which I am familiar: Multics, and Genie (SDS 940). 2

In the case of Genie, ARPA put pressure on a commercial manufacturer to make the results of the research available in a form usable by anyone. The fact that the 940 system resulted from sizable modifications to a particular manufacturer's equipment made it implausible that the research could have been delivered in any other usable form (although another manufacturer, SCC, considered building their own version of the machine, and a group implemented essentially the same software system on the CDC 3300 which had slightly different hardware). 3

The case of Multics is similar. There, more of the investment was in software, and serious consideration was given at one time to a PDP-10 Multics. Multics was seen (at least by many of those working on it) as a fundamental investigation in computer science rather than an attempt to produce a commercial system. However, ARPA again was partly responsible for the manufacturer's decision to market the system. Again, the emphasis was on taking research results and making them available to the computer-using (and potential computer-using) population at large. 4

The ARPANET has been handled quite differently. Government agencies have been given access as parasites even before the network has reached a stable or reliable state. Nearly all of the research has been in software, making it plausible that many competing companies should be encouraged to build on it, yet ARPA has encouraged one of them (BBN) to the extent of removing a competitor (PCI) from the NIC mailing list. At least three or four requests from government agencies have come directly to network research sites requesting assistance or information, as though those agencies viewed the network as a service organization operating for their benefit (or at least with them as customers). To some extent, network activities oriented toward producing a service facility soon rather than experimenting with different organizations and protocols have been encouraged, with the exception of BBN. 5

The record seems to indicate that ARPA is undergoing a change in

philosophy, from a posture of encouraging research as a benefit to the state of the art and separately encouraging distribution of that research at large, to one of more immediate channeling of research results towards government use. The Illiac experience suggests that this change may not be entirely of ARPA's own doing, but whatever the cause, I feel that this perceived change is markedly reducing the attractiveness of ARPA-sponsored research. I feel it justifies my insistence within PARC that we not undertake any work under ARPA sponsorship that we cannot afford to support ourselves.

Sincerely yours,

L. Peter Deutsch

LPD 2-FEB-73 19:05 14283

Message to Larry Roberts (& anyone else interested)

(J14283) 2-FEB-73 19:05; Title: Author(s): Deutsch, L. Peter/LPD;
Distribution: /; Sub-Collections: NIC; Clerk: LPD;
Origin: <DEUTSCH>NETHISTORY.NLS;2, 2-FEB-73 10:19 LPD ;

DCE 5-FEB-73 19:15 14284

Forthcoming second visit by David Holtzman of Xerox, Rochester,
to discuss office applications and get hands-on NLS experience

Forthcoming second visit by David Holtzman of Xerox, Rochester, to discuss office applications and get hands-on NLS experience

Holtzman visited us before, on 4 Jec 72, along with Dick Smallwood of Xerox PARC (and Oren and Berger, see my visit log -- 12443,). This time he wants to spend about a day's time getting a closer look at our operations, and in particular experiencing some terminal usage. He will bring with him a man from the University of Oklahoma (a specialist in "Speech Theory") who is doing some consultation work for him. They will spend the aftenoon and evening of Thursday, 8 Feb 72, at ARC. 1

The initial arrangement was for them to arrive at 2:00 p.m., and stay as late as they and their hosts wanted to. Holtzman says he has a dinner engagement, but that he can stay until 8 or 9; and upon hearing abut the TNLS class, he became quite interested in the possibility for observing the students -- he would like to have lunch with some of the trainees if possible. He'll call from PARC (visiting with Smallwood) on Wed 7 Feb to check for final timing. 1a

My agreement with Holtzman is that while I welcome the exchange betweeen them and us, I have to guard our computer resources for the applications to which we are (over-) committed. During the heavy-load part of the afternoon, they can talk, observe, be given "blackboard" indoctrination, etc., but not until the regular-user load slackens off for the day do I want them using any on-line slots. 1b

Since Holtzman has one of the top roles in Xerox's marketing research/analysis, and in particular since he is launching into a very intensive study of "augmented offices", it seems evident that both they and we stand to gain from an open interchange. 1c

Jim Norton and Paul Rech will be their hosts -- representing our interests in "office" applications and analysis. I want them to take advantage of the situation to learn as much as possible about how these kinds of people view "workshop augmentation," and how their thinking goes about cost/benefits, higher-payoff applications, etc. 2

By our current planning, ARC will begin turning on and enlisting trial-application guys (the "architects" for larger organizations) within a collaborative, bootstrapping community; they will have to sell their management on sustaining or enlarging their exploratory augmentation investment, and hopefully on successive stages of actual application. We will want to be ready to support their promoting/selling needs, and I'd imagine that they would

Forthcoming second visit by David Holtzman of Xerox, Rochester, to discuss office applications and get hands-on NLS experience

benefit from some of the same kinds of considerations, answers, questions, etc. that will come up betweeen these visitors and their ARC hosts. 2a

I am asking Paul to do the coordinating for the visit -- after he and Jim discuss and arrange for the afternoon (including possibilities for the visitors' lunching with TNLS trainees, etc.), instruct our phone-answering girls to shunt Holtzman's Wed. call from me to Rech to take care of final arrangements with Holtzman. I would enjoy spending some time with them, but right now I can't plan on it; leave that open until we communicate about the matter early Thursday afternoon. 3

DCE 5-FEB-73 19:15 14284

Forthcoming second visit by David Holtzman of Xerox, Rochester, to discuss office applications and get hands-on NLS experience

(J14284) 5-FEB-73 19:15; Title: Author(s): Engelbart, Douglas C./DCE ; Distribution: Norton, James C., Rech, Paul, Watson, Richard W., Brown, David R., Cox, Bonnar, Kudlick, Michael D., Irby, H. Charles, Van Nouhuys, Dirk H., Wallace, Donald C. (Smokey), Stone, Duane L./jcn pr rww drb bc mdk chi dvn dcw dls ; Sub-Collections: SRI-ARC; Clerk: DCE ;

AAM 5-FEB-73 14:43 14285

Getting lots of PIECES OF A SINGLE DOCUMENT printed out

Sent to CHI and NP

AAM 5-FEB-73 14:43 14285

Getting lots of PIECES OF A SINGLE DOCUMENT printed out

Dear Charles,

I want to print out the whole TNLS Users Guide on the Odec Printer attached to my TIP. I would like to use sendprint since thats the only way i know to get nicely-formatted output. Unfortunately, the TNLS Users Guide is in many different files (userguides,7470 userguides,7471 ...) and, as we now know, not only is ODP somewhat slow but will also go into a state of suspended animationif there is any significant load. Even if this WERNT true I'm not particularly enthusiastic about typing all the names of the pieces of the Users Guide into the system; I'm even less enthusiastic if each bit of typing has to be done many minutes (or hours) after the last. This is a specific instance of a general problem of getting hardcopy of documents (others are Resource Notebook, Protocols, Journal Users Guide, etc.) Is there a general solution? If so, can you give me a "cookbook"?

Regards, Alex McKenzie (ident=aam) 1

AAM 5-FEB-73 14:43 14285

Getting lots of PIECES OF A SINGLE DOCUMENT printed out

(J14285) 5-FEB-73 14:43; Title: Author(s): McKenzie, Alex A./AAM;
Distribution: Irby, H. Charles, Irby, H. Charles/CHI NP;
Sub-Collections: NIC NP; Clerk: AAM;

TITLE

THIS IS THE MESSAGE 1

TITLE

(J14286) 5-FEB-73 8:58; Title: Author(s): ARC, Guest O./ARCG;
Distribution: /; Sub-Collections: SRI-ARC; Clerk: ARCG;