

tpo12

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This is the 1973 version of the TPO12,

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## 3,12 TPD No, 12 - COMPUTER SYSTEMS TECHNOLOGY

1

## 3,12,1 GENERAL OBJECTIVES;

1a

(U) The objective of this TPD is to develop the various computer related technologies which are required to allow computer systems to be used for the efficient and economical solution of numerous Air Force operational problems, 1a1

The efforts directed toward meeting this objective are in two major areas - Computer Architecture and Interactive Processing, Computer Architecture deals with the organization of computer components and sub-systems, Interactive Processing addresses the problems of automatic target identification, man-machine interface, and the automation of operational functions, 1a2

The objectives of the efforts in the Computer Architecture area are to: (1) investigate the application of Associative Processor (AP) techniques to the solution of Air Force real-time data processing problems; (2) shorten computer system development time by establishing a software first facility which will allow software to be developed in parallel with, and independent of the associated hardware; (3) develop technologies which will allow the design of improved and cost effective computer systems for aerospace applications, 1a3

Efforts in the Interactive Processing area are directed toward: (1) developing the facilities and the expertise required to solve the complex data processing problems of automatic target detection and identification technique development and

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assisting a wide variety of users in actually developing automatic target detection and identification equipment for use in various Air Force surveillance systems; (2) developing cost effective interactive graphics techniques and systems which will lower Air Force operational costs and increase effectiveness; providing militarized computer driven console and group displays for both ground tactical and airborne systems and developing low cost, highly interactive displays for use in multi-terminal computer graphics systems,

1a4

### 3.12.2 SPECIFIC GOALS AND TECHNICAL APPROACHES:

1b

(U) The plan for attaining the TPO objective is shown in the overview chart (Page 3.12=2). The technical efforts covered by this TPO are oriented toward providing the six major products shown,

1b1

3.12.2.1 (U) ASSOCIATIVE PROCESSOR COMPUTING SYSTEM - the goal of this product is to provide techniques capable of meeting the ever increasing data processing requirements of the Air Force as typified by the high data rate real-time processing demands imposed by systems such as the Airborne Warning and Control System (AWACS),

1c

As indicated by the Milestone Chart (Page 3.12=17), this goal will be achieved by establishing an Associative processor Testbed (APT) facility for purposes of assessing the capability of an associative processor to meet the real-time requirements of AF surveillance systems. The major on-going effort is

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directed toward the AWACS requirement. The testbed facility, when completely installed, will consist of an Associative Processor tied to RADC's HIS 645 sequential computer, a situation display capability for purposes of providing operator interaction with the executing programs, a data manipulation capability for effecting high utilization of processing elements, and equipment for monitoring the performance of the testbed equipment while executing operational type programs. Completion of the testbed system is planned during FY=76, with interim capabilities available at the present time,

1c1

A parallel major effort is the development of Associative processor application software to accomplish functions required by AWACS. This software is being developed for analysis and demonstration on the AP testbed. This activity, which is being accomplished both in-house and contractually, will concentrate on the data processing aspects of active and passive tracking, weapons control, display processing, and signal processing. Completion is expected in mid FY=75. At that time, an effort to develop the Advanced Airborne Command Post functions will be started. In addition, Syracuse University is developing software to perform functions such as matrix manipulations, fast fourier transforms, and partial differential equation solutions, and Mitre Corporation is developing software in functional areas directly applicable to ESD project requirements,

1c2

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A Parallel Processor simulator is being purchased to perform comparison studies. Certain of the application software modules will be written to run on this simulator, and their performance will be compared to performance of comparable modules on the AP. The comparison will also alert the programmer to the parts of the software which are specifically architecture dependent.

1c3

Two AP design studies are being conducted in support of RADC TPO-9= "Telecommunications". This TPO supports improvements to the Defense Communications System (DCS). The first is the Communications Processing System study which will examine various architectures, including the Associative Processor, in the design of a processor to handle all types of communications traffic both digital and analog. Completion is planned for mid FY=75. The second design study is for an associative communications multiplexer which will compress and multiplex digital signals using an Associative Processor. Completion is planned for the end of FY=74.

1c4

Another AP design study is being conducted in support of RADC TPO-3= "Automated Mapping and Charting". This study investigates the use of the Associative Processor mapping and charting applications in response to the Defense Mapping Agency requirements. (Conceptual System IN=3)

1c5

The prime end goal of the Associative Processor project is the development of hardware and software specifications for a

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cost-effective, highly reliable Associative Processor Computing System suitable for airborne and tactical environments. These specifications and the rationale developed by the project during the 1973-1976 time period are expected to lead to a 6,4 program to actually fabricate the evolved APCS design. This program, estimated at 14 million dollars, will result in a militarized Associative Processor and its supporting software directed toward an application such as the Advanced Airborne Command Post. The computer system will serve as the basis for continued software development and application programming at RADC and can be used as a prototype design for operational AF systems. Target date for completion is FY-78.

1c6

3.12.2.2 (U) SOFTWARE FIRST FACILITY - To achieve the objective of establishing methods for developing computer software independent of computer hardware the program outlined in the Milestone Chart (Page 3.12.18) will be pursued.

1d

The Software First Concept Definition effort will define the software first concept in detail. The major requirement for the success of the concept is that the software be as independent of the hardware as possible. The study includes a detailed identification of the hardware dependencies that are normally written into software, even in a higher order language, and to identify methods to avoid these dependencies. The study also includes an assessment of the requirements on

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the microprograms, Concept definition will be completed in FY=74,

1d1

ESD, in conjunction with RADC, is sponsoring a Software First Feasibility study which will include three efforts; (a) A configuration plan will be prepared which will outline the detailed flow of a computer system procurement, showing the time required for accomplishment of all the major milestones and identifying potential bottlenecks, (b) A study will be conducted to determine the best architecture for the software first machine. The most likely candidates are the direct execution machine (one which executes higher order language code directly) and the microprogrammed evaluator (a machine with the flexibility to look like many other machines), (c) A study will be conducted which will determine what machines are available off-the-shelf to do the job. It will culminate in production of a specification for the software first machine and a list of potential bidders. Completion is planned for mid FY=75,

1d2

In order to prove the software first concept, it is necessary to put it into practice. This will be done under the Software First Facility Development effort. An off-the-shelf micro-programmable computer will be purchased in FY=75 using the specifications from the feasibility study and the micro-programs will be purchased to run the World Wide Military Command and Control System (WWMCCS) software. Under the



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Software First Applications Studies effort, using this testbed, hardware/software tradeoffs will be studied and a specification will be written for a microprogrammable processor for the Advanced Airborne Command Post using the results of this program combined with others such as the radiation hardened computer technology program reported below. Further studies will be conducted to clarify details of the software first concept including possible implementation of an intermediate language with flexibility to translate from a variety of higher order language to a variety of machines. The end product will be a Software First Facility for use in procurement of future systems.

1d3

3.12.2.3 (U) AEROSPACE COMPUTERS - The goal of developing the various technologies required to provide cost effective aerospace computers will be reached through the program shown in the Milestone Chart (Page 3.12-19).

1e

The Spaceborne Computer Program will develop, functionally test, and radiation-test computer subsystems consisting of a computation and processing unit (CPU), a memory unit, an Input/Output unit (I/O), and a radiation hardened power supply. These four units will utilize metal-oxide-silicon (MOS) technology. The four units (CPU, I/O, memory, and power supply) which will be developed under this program will be mated together and operated as a demonstration computer. The demonstration computer will subsequently be tested as a system

in a radiation environment to verify the radiation hardening capability that has been obtained. This demonstration computer will utilize radiation hardened CMOS/SOS technology for the CPU and the I/O units. CMOS/SOS technology is the fastest available MOS technology, and this technology provides the maximum transient radiation hardness attainable. The technology that will be used for the program memory is MNOS, used in an electrically-alterable read only mode. This technology will require approximately one millisecond write time per memory location, but this will allow non-destructive storage of program data for times in excess of 10,000 hours. The access time realizable for such a memory will be within the range of 100 to 500 nanoseconds. The technology that will be utilized in the regulated computer power supply is PMOS. High power PMOS devices (5 amps at 56 volts) are presently the only available and proven MOS devices suitable for this application. (The spaceborne computer effort is being performed at AFAL and reported in AFAL's TPO's S=3 and T=3.)

1e1

The Digital Avionics Information System (DAIS) is to be a "hot-bench" emulator of an integrated avionics system. It will include off-the-shelf sensors as much as possible and simulations where the sensors are not available. It is a joint effort with AFAL providing the central processor and many of the interfaces, AFFDL providing the cockpit simulator, ASD providing consulting services, and various other labs providing

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support in their areas, RADC is providing software support, including use of JOICIT and the structured programming information obtained from IBM, (This is a related AFAL effort.)

1e2

AFAL has recently received a specification for a Higher Order Language Computer (HOLC), a computer which executes high order language code directly. They are presently studying the specification in-house to determine possible avionics applications, but have not programmed any funds for follow-on efforts, (This is a related AFAL effort.)

1e3

3.12.2.4 (U) TARGET RECOGNITION SYSTEMS - The automatic identification of targets is required to support many Air Force objectives including Space Object Identification (SOI), aerial surveillance, base defense, and tactical interdiction. Devices which analyze the output electronic signals from the transducers of various sensor systems, including infrared, radar, photometric, seismic, acoustic, etc., and automatically recognize these signals as occurring in a specific target class must be developed. These classifiers will increase the effectiveness of the sensor system since false alarms will be eliminated and will allow more accurate and rapid assessment of the threat by commanders. Classifiers may be implemented as part of a data processing system, be part of other ground or airborne installations, or be contained in sensors impact implanted into enemy territory.

1f

The technical approach to the design of these classifiers is to

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use high performance computer graphics systems married to advanced pattern recognition techniques to provide general purpose tools which allow the design engineer to analyze a data set, extract features characteristic to each target class, evaluate those features, and design the target classifier. Since several solutions can be developed rapidly, the most cost effective in terms of accuracy versus complexity (i.e., number and type of features or method of classification required) can be implemented.

1f1

The development of a complete interactive pattern recognition facility oriented toward the solution of such automatic target detection and identification problems is continuing. This facility will provide the capability to design devices which will allow operational surveillance systems to automatically identify targets, using various types of sensors (e.g., radar, seismic, acoustic, infrared, photometric, etc). The plan for attaining such a capability is shown in the Milestone Chart (Page 3,12,20).

1f2

The target recognition problem can be characterized as having two parts: the first called feature extraction, where the relevant traits of the given target signature are analyzed and selected; and the second called logic design, where these features are used to design a classifier to correctly identify targets when presented with these features from the target signatures.

1f3

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Efforts concerning feature extraction are addressed by the waveform processing and preprocessing line items. The Waveform Processing System (WPS), when completed in early FY=76 will allow the analyst to dynamically interact with the data in defining his features thereby achieving better features in less time. The Waveform Preprocessing Techniques effort is a companion effort to WPS to produce data input algorithms and hardware required to support specific applications (such as speaker verification, ELINT, etc). These efforts will produce a complete waveform processing facility able to effectively handle digital, analog, and photographic waveform data input.

1f4

Our efforts concerning classifier logic design are addressed by the On-Line Pattern Analysis and Recognition System (OLPARS). The Advanced OLPARS effort will upgrade the presently operating prototype version by, (1) taking advantage of the inherent flexibility of the MULTICS operating system; (2) improving the filing system, executive, data structure analysis, and classification algorithms; and (3) enabling it to interface with the WPS. This advanced version represents a major step forward. Thus by FY=76 RADC will have a complete and powerful interactive pattern recognition capability.

1f5

RADC is pursuing a vigorous program in two major applications areas. The first area is Space Object Identification (SOI) in support of NORAD and ADC requirements. The Aerospace Shape Identification line item represents a study of the feasibility

of recognizing the shape of objects in space by analyzing narrow pulse radar returns. Data has been collected on the radar returns from models of differing shapes by efforts under RADC-TPQ=15 "Electro=magnetic Generation and Control". This data is being used to derive rotationally invariant features for use in classification of actual aerospace objects. The Photometric Techniques program involves the study of actual satellite signatures derived from telescopically collected reflected sunlight in order to determine features and classification logic for discrimination purposes,

1f6

The second major application is that of Ground Sensor Technology for tactical interdiction and air base defense missions. Classifiers for seismic, acoustic, and magnetic data input are being developed to discriminate between vehicles (light, heavy, wheeled, tracked), people, aircraft (jet, prop, fixed wing, rotary wing), and nuisances (weather, animals, vegetation). With the feasibility of this approach already proven, further work will address the development of a family of these devices for world=wide use, and attack problems peculiar to these sensors such as multiple targets occurring simultaneously and the use of multiple sensor arrays,

1f7

New pattern recognition techniques for feature extraction and target classification are continually being evaluated and the potentially useful ones added to those tools so that they evolve to solve an ever increasing spectrum of problems,

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Development in this area is expected to continue through at least FY=78,

1f8

3,12,2,5 (U) COMPUTER GRAPHICS SYSTEMS - The goal of the computer graphics technology area is to provide cost effective solutions to the problems encountered in developing low cost multi-terminal computer graphics systems which will present computer generated data to an operator and allow him to interact with it. The data presented can be in the form of alpha-numeric symbology or line drawn graphics.

1g

The system must allow the operator to interact with the data base and modify or control the overall processing function by means of his input devices while observing the results with some type of display. This technology and the technology being developed under RADC TPO=4 efforts are directed toward image analysis which is not a goal of this TPO.

1h

One of the most effective types of display presentation is the interactive graphics display. In this mode, the operator has access to and control over the computing process with the results presented to him in the form of graphical figures. They are numerous levels of performance and cost associated with each system, as well as a variety of possible implementation schemes. The selected system must represent a balance between performance, cost and flexibility.

1h1

The RADC computer graphics program is a combination of both contractual and in-house efforts. All of these efforts depend

heavily on the interactive processing facility recently installed at RADC. This facility includes a flexible computing system as well as high performance graphics and allows the user to both perform developmental functions as well as to simulate several applications functions. The Milestone Chart (Page 3,12,21) outlines the computer graphics program,

1h2

The Air Force Global Weather Central (GWC) Interactive Graphics System effort is directed toward providing their analysts and forecasters with the ability to generate, edit, analyze and update various weather charts and forecasts in the interactive mode. This will increase the flexibility as well as decrease the cost of the various operations involved. The final system configuration will include numerous terminals and several forecast locations as well as a direct hook-up to the main GWC computer facility. Techniques developed during an FY=73 effort for DIA will be applied to this program. Full GWC system implementation is expected during FY=77.

1h3

One of the prime considerations in applying computer graphics is that of economy. The specific approach that will reduce the per-terminal cost of multiple terminal graphics systems is the use of raster (or digital TV) techniques. Such a system not only has the potential for high performance at relatively low cost, but also offers the unique feature of being able to mix computer generated graphical data with pictorial information. The Raster Graphic Techniques effort is aimed at investigating



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the feasibility of performing the graphics functions using interactive TV displays. The goal is to provide performance equivalent to present selective address systems with a significant reduction in cost. The culmination of the program in FY-77 will be a Multi-Terminal Raster Graphics System which demonstrates equivalent performance at much lower cost than previously available systems.

1h4

The Graphics Software Techniques effort represents a group of related and continuing efforts to produce specialized software. Among these efforts are the RADC graphics facility support software, the investigation of extensions to various computer languages to produce a higher order graphics language to simplify the development of graphics software, the implementation of more efficient software and the use of specific software in the simulation or demonstration of feasibility for particular applications.

1h5

The Graphics Modeling effort is aimed at the development of a modeling system to investigate the various parameters utilized in the design of interactive graphic systems. These include the use of a satellite processors, concentrated as opposed to distributed data bases, the effect of response time on various interactive devices, and operator performance within such a system. The result will be more effective and efficient system designs while minimizing the overall cost.

1h6

3,12,2,6 (U) TACTICAL AND AIRBORNE COMMAND AND CONTROL

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DISPLAYS - There are two general goals in this area: (1) to develop rugged, reliable, militarized displays for both group and individual operator usage; and (2) to develop low cost, highly interactive displays for use in multi-terminal computer graphics systems. The difficult environment of tactical and airborne command and control applications, coupled with the need for high reliability and non-catastrophic failure mode, compounded by the functional requirements, pose very difficult problems. As a result, a number of technologies fall short, and the plasma technology, which shows the most promise is being developed to meet these requirements as shown in the Milestone Chart (Page 3,12=22).

1h7

The plasma Group display for tactical and especially for airborne use will be characterized by reliability well in excess of 1000 hours and a non-catastrophic failure mode to insure availability over the entire mission time. Concentration is on plasma displays consisting of arrays of long, thin capillary tubes. With this construction, the physical size of the display is constrained only by the length of the tubes (up to about eight feet). A recently completed effort demonstrated the basic feasibility of obtaining multicolor operation, however, operating life is still a problem. An FY=74 Plasma Techniques effort will improve the life expectancy via the use of "getting" materials to keep gas contamination at a minimum.

1h8

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A program to demonstrate the practicality of building and driving large panels through production of a model of 256X1024 elements at a resolution of 33 elements per inch is underway, representing one quarter of a prototype display. During FY=74 means for obtaining cost effective access circuitry for panels of this type will be studied. It appears that the decode matrix (10 bits to 1024 lines) can be performed with capacitors, which would greatly reduce costs over the techniques currently used. By FY=75, RADC will be in a position to initiate a program to design, fabricate and test a prototype display model capable of operating in the hostile military environments of airborne and tactical systems.

11

The flat panel console for individual operator usage is essentially an interactive computer terminal with a flat panel substituting for the CRT. However, the physical size will be only 14 x 14 x 4 inches. It will weigh less than 50 pounds and require more than 16,000 characters as well as the graphics display capability required for the AWACS mission. The feasibility of fabricating 1024 x 1024 element panels at a resolution of 83 elements per inch has been demonstrated. This led to a FY=74 D&F item to design, fabricate and test a development model of a display unit capable of operating in hostile military environments as typified by 411L (AWACS), 481B (AABNCP) and 485L (TACSI). An FY=75 effort in Plasma Techniques is planned to fabricate and test a 512 x 512 element system. This, coupled with the result of the D&F item, will

provide the Air Force with completely militarized 512 x 512 and 1024 x 1024 display systems. FY-75 efforts are also planned to extend the capability of the plasma technology to obtain multicolor operation and grey scale,

111

Interactive Techniques for plasma displays are being developed. This research has two goals. First, the operator must have the capability of utilizing all of the interactive devices presently available with CRT terminals. This has already been shown. Second, the unique capabilities offered by the plasma technology will be exploited for Application to Computer Graphics Systems. The feasibility of using a light pen to write directly on the display, analogous to writing on a piece of paper with a pencil, has been demonstrated. The capability of electronically sensing the state of any element of the display matrix has also been demonstrated on a 128 x 128 array. Thus the display can now be thought of as an image memory, and can now transmit data to the data base, to other displays, to hard copy output devices, etc., without the need for intervening data format conversion devices. This capability will be implemented in a 512 x 512 terminal and the utility of this capability tested. The feasibility of automatically shifting the information on the panel in any direction will also be tested. Vertical and horizontal image file translation will thus be afforded for such uses as text scrolling and moving map presentations. Methods for directly inputting

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information to a plasma panel, via optics, will be initiated in FY=75, 112

This would allow for the direct, parallel input of two dimensional information. As additional interactive capabilities become available, they will be implemented in a testbed system to study the plasma display as a computer graphics terminal. 113

### 3,12,3 RELATED EFFORTS: 11

(U) Numerous efforts which are related to this TPO are being pursued by other Air Force Laboratories and other agencies, both within DOD and in industry. Close technical liaison is being maintained on these efforts and any technical advances made will be applied to this TPO. Conversely, the results of efforts under this are made available to other agencies for application to their programs. Following is a summary of the major efforts related to the products of this TPO. 111

3,12,3,1 (U) ASSOCIATIVE PROCESSOR COMPUTING SYSTEM - The Federal Aviation Agency is studying the use of an associative processor for air traffic control processing. A prototype STARAN was used for conflict prediction studies at the Knoxville, Tennessee test site. Further studies are being conducted with three contractors, each applying benchmark problems to their machine. 112

3,12,3,2 (U) SOFTWARE FIRST FACILITY - Univac has a software first program under IR and D which will be used to design their

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next generation computer systems. They intend to build a microprogrammed multiprocessor with an extremely flexible internal communications scheme to support the program. IBM, under internal corporate research, is designing a direct execution machine (which directly executes higher order language code). This architecture is a candidate for the software first program.

113

3.12.3.3 (U) AEROSPACE COMPUTERS - The Aerospace Computer program is being conducted primarily at AFAL and includes such efforts as the Digital Avionics Information System and the High Order Language Computer. The technical advances from related efforts in this TPO are provided AFAL as well as funding from Projects 3176 and 5550.

114

3.12.3.4 (U) TARGET RECOGNITION - The Army is applying pattern recognition techniques to speaker identification, photograph analysis, shock trauma analysis, mine fusing and IGloo White applications. The Navy is using pattern recognition for speech recognition and for sonar target identification. NASA is doing work in identification of various earth resources using multi-spectral scanners.

115

It should be noted that the preceding work has been done in close cooperation with RADC. Some of the work was actually completed on the RADC system by other services after training and familiarization by RADC personnel. These agencies have either begun development or are considering

development of a research tool patterned after the RADC On-Line Pattern Analysis and Recognition System (OLPARS); or are planning to continue using the RADC system,

1j5a

3.12.3.5 (U) COMPUTER GRAPHICS SYSTEMS - There are numerous efforts in computer graphics being pursued both within DoD and in other government agencies. The Army is developing cartographic analysis techniques using interactive graphics while the Navy is synthesizing radar backgrounds and clutter to test radar signal processing systems. NASA has used computer graphics extensively for both computer aided design and flight simulation. More recently within the National Oceanographic and Atmospheric Administration computer graphics has been applied to the analysis of meteorological data particularly relative to severe weather conditions. ARPA has been one of the prime movers in the development of graphic techniques primarily through its university contracts,

1j5b

3.12.3.6 (U) TACTICAL AND AIRBORNE COMMAND AND CONTROL DISPLAYS - The Army, Navy, AFAL and AFFDL have requirements for displays which in many ways are similar to those required by the AF, and of course, the same display technology is available to all of the services. The Navy is concentrating on photochromic and electrochromic techniques, as well as liquid crystal and electroluminescent techniques. The Army has a number of different approaches to a discrete

element matrix display, They are simultaneously developing light emitting diode, and flat CRT techniques, NASA is involved in efforts on a high-contrast CRT and single gun color CRT,

1j5c

## 3.12.4 REQUIREMENTS;

1j5d

(U) There are numerous Air Force requirements for the technologies being developed under this TPO, High speed data processing techniques, software first concept, aerospace computer technologies, automatic target identification techniques, interactive graphics systems, and improved display capabilities are being developed to satisfy the following requirements:

1j5d1

## 3.12.4.1 (U) ASSOCIATIVE PROCESSOR:

1j5e

REQUIREMENT  
IDENTIFICATION  
NUMBER

TPO  
TITLE APPLICABILITY

1j5f

1j5g

1j5h

1j5i

CCIP=85 AF C&C Info Processing Significant  
in the 1980's,

1j5j

1j5k

IN=ESD=24-69-02 Associative Processor Significant  
Tech, and Applications

1j5l

1j5m

PMD P=2P=031(1) Adv, Computer Tech, Applicable  
63728F Project 5550

1j5n

1j5o

N/A Letter Dated 31 Aug 71 Significant  
SAB, SAF/RD & AF/RDPE  
Planning Discussion

1j5p

1j5q

1j5r

CC=3 TPG/Command, Control Applicable  
Communications

1j5s

1j5t

IN=3 TPG/Intelligence Applicable

1j5u



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3,12,4,2 (U) SOFTWARE FIRST FACILITY:	1j5v
CCIP=85 AF C&C Info Processing Significant	1j5w
in the 1980's	1j5x
CC=3 TPG/Command, Control Applicable	1j5y
Communications	1j5z
3,12,4,3 (U) AEROSPACE COMPUTERS:	1j5a0
PMD P=2P=031 (1) Adv. Computer Tech Applicable	1j5aa
63728F Project 5550	1j5ab

3,12,4,4 (U) TARGET RECOGNITION SYSTEMS:		1j5ac
REQUIREMENT		1j5ad
IDENTIFICATION	TPD	1j5ae
NUMBER	TITLE APPLICABILITY	1j5af
TN=SAMSO=AFAL	Satellite Photometric	Significant 1j5ag
1708=73=01	Signature Interpretation	1j5ah
RAD=155 (1)	Integration of Surface	Essential 1j5ai
6374DF	Surveillance Info Into	1j5aj
	The Tactical Air Force	1j5ak
ADC ROC 16=71	Space Object Ident,	Essential 1j5al
	System	1j5am
SD=2, 6, 7, 10	TPG/Strategic Defense	Significant 1j5an
IN=4, 8	TPG/Intelligence	Applicable 1j5ao
RS=2 TPG/RECCE & Surv,		Significant 1j5ap
MS=1 TPG/Mission Support		Applicable 1j5aq
3,12,4,5 (U) COMPUTER GRAPHICS SYSTEMS:		1j5ar
TN=ESD=24=68=11	Graphic Display Software	
	Significant	1j5as
MAC=DAR=L72=7	AFGWC Display System	Applicable 1j5at
MS=4 TPG/Mission Support		Essential 1j5au
IN=1, 2, 6	TPG/Intelligence	Applicable 1j5av
3,12,4,6 (U) TACTICAL AND AIRBORNE C&C DISPLAYS:		1j5aw
TN=ESD=23=68=01	Large scale Displays	Significant 1j5ax
TN=ESD=23=68=02	Console Displays	Significant 1j5ay
IN=1, 2	TPG/Intelligence	Significant 1j5az
RS=2 Recce & Surv,		Significant 1j5be
CC=3 TPG/Command, Control,		Significant 1j5ba
	Communications	1j5bb

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- 3,12,5 RESOURCES: 1j5bc  
 (U) The funding and manpower required to support this TPO is listed on page 3,12=23, No other major support requirements have been identified, 1j5bc1
- 3,12,6 MILESTONE CHARTS: 1j5bd  
 (U) The milestone charts indicate the interrelationships of the individual efforts which will be required to attain the technical goals of this TPO, 1j5bd1
- 3,12,7 TPO FOCAL POINT: 1j5be  
 DANIEL R, LORETO 1j5be1  
 Rome Air Development Center (ISC) 1j5be2  
 Griffiss AFB NY 13441 1j5be3  
 Autovon 587-2014 1j5be4

EJK 23-JUL-74 12:43 30938

Journal Mail - second quarter 1974

(J30938) 23-JUL-74 12:43; Title: Author(s): Edmund J. Kennedy/EJK;  
Sub=Collections: RADC; Clerk: EJK;

Journal Mail - Second quarter 1974

(hjun) 1

(RJC) 20=JUN=74 05:50 30893 1a

Message: Wine and cheese party = Charlie Breece = \$2,50 per person = Display Facility = 1700 Hrs. = see Marilyn Rossi X7009, Tickets NLT 22 June, 1a1

Comments: 28 June 1a2

(RJC) 17=JUN=74 12:52 30883 when ISI confessions are 1b

Message: ISI Confessions 0830 hrs, 1b1

Comments: Confessions are held on 19 June, Wednesday 1b2

(hmay) 2

(RJC) 29=MAY=74 07:51 30823 Kenyon Memo to DCLP (MJOURNAL, 30823, 1:w) 2a

Comments: Ed, am journaling this particular item to you then deleting file from my directory 2a1

(FEED) 20=MAY=74 17:10 30773 Interaction of substitute andviewspecs, 2b

Message: Ed, The substitute command is designed to be controlled by the current viewspecs. This gives the user a powerful way to control its effect. If you want to have it work on all of the entity specified merely ensure that viewspec w is in force. See Section 5, page 15 of the TNLS User's Guide, statement 10c. Copy to all RADC because this is probably not common knowledge, \*\*\*\*\*Note: for your info\*\*\*\*\* 2b1

(RJC) 22=MAY=74 07:24 30782 FAREWELL PARTY = 5 JUNE 74 2c

Message: SAY FAREWELL = 1800 = 2000 hrs. GAFB Officers Club \$3.00 per person Stand=up Buffet Pay as you go Happy hour prices first hour Tickets may be obtained by contacting M. Xobos by 31 May 74, 2c1

(RJC) 22=MAY=74 07:16 30781 Tickler (LJOURNAL, 30781, 1:w) 2d

(DLD2) 24=MAY=74 07:14 30805 PROGRAM NAME PR3 (MJOURNAL, 30805, 1:w) 2e

## Journal Mail - Second quarter 1974

(DLD2) 24=MAY=74 07:11 30804 PROGRAM NAME: CONTR  
(MJOURNAL, 30804, 1:w) 2f

(JPC) 16=MAY=74 12:29 30754 Thoughts on the PSO  
(LJOURNAL, 30754, 1:w) 2g

Comments: These are some quick impressions on what problems we have with the PSO and even some ideas for solving them (How about that?). 2g1

(AAC) 16=MAY=74 08:09 30752 message on time charge for OPSEC  
(LJOURNAL, 30752, 1:w) 2h

(AAC) 16=MAY=74 07:45 30751 Info on Form DD 1555  
(LJOURNAL, 30751, 1:w) 2i

(RJC) 13=MAY=74 11:20 30730 Movie 2j

Message: OPSEC Film - 1:30 - Tuesday - Conference Room. Those who didn't attend should! 2j1

(FJT) 8=MAY=74 11:52 30713 symposium  
(LJOURNAL, 30713, 1:w) 2k

(RJC) 8=MAY=74 10:29 30712 International Conference 2l

Message: 1975 International Conference on Reliable Software to be held 22-25 April 1975 - CALL FOR PAPERS - Abstract Deadline of 15 July - Expect minimum of two (2) papers in ISI to be submitted per Col Thayer. 2l1

(DLS) 7=MAY=74 05:22 30642 Initial test of journal mail to FND, DTC, JWH 2m

Message: Welcome aboard,...hope you enjoy the flight,...link to me if any questions,...push Kennedy for some formal training sessions. 2m1

Comments: Craig, ident= DTC and Hyde, ident= JWH are also recognized under the dirrrectory <dimaggio>. 2m2

(AAC) 3=MAY=74 11:17 30634 Opsec  
(LJOURNAL, 30634, 1:w) 2n

(hapr) 3

(DLS) 30=APR=74 15:00 30588 Comments on IBM Structured Programming Effort  
(LJOURNAL, 30588, 1:w) 3a

## Journal Mail - Second quarter 1974

- Comments: There must be more to it than I see on the surface, I would like to talk with some in Nelson's section, I think it would benefit both of us to better understand the other's area, 3a1
- (DLS) 30-APR-74 08:53 30586 (LJOURNAL, 30586, 1:w) 3b
- Comments: I sent this last week via sndmsg, but think it never made it, 3b1
- (RJC) 29-APR-74 07:36 30576 Tickler Item 3c
- Message: Form 2's (employee time expenditures) are due today, 3c1
- (RJC) 29-APR-74 07:31 30574 Tickler Item 3d
- Message: Due Date = ISIM/E, Kennedy = Suggestion Evaluation GRF-74-975 Integration of Computer Operations to Mgt Procedures, 3d1
- (RJC) 25-APR-74 07:40 30553 tickler for the week of 29 Apr (LJOURNAL, 30553, 1:w) 3e
- (AAC) 24-APR-74 13:20 30547 Tardiness (LJOURNAL, 30547, 1:w) 3f
- (RJC) 22-APR-74 12:35 30513 Some PSO Thoughts (JJOURNAL, 30513, 1:w) 3g
- (FJT) 22-APR-74 12:16 30511 Lab Activities Report (JJOURNAL, 30511, 1:w) 3h
- (RBP) 8-APR-74 06:52 30428 5 April Meeting with Comm on AKW (JJOURNAL, 30428, 1:w) 3i
- Comments: This was the action I had to take as a result of our 3April meeting, 3i1
- (JLM) 4-APR-74 10:14 30407 istaffnotes/4 April (JJOURNAL, 30407, 1:w) 3j
- (DLS) 4-APR-74 05:35 30404 where have all the stats gone? 3k
- Message: Susan, I get the Superwatch graphs each week,,,good deal because I like to keep track of how the ARC system is being used (now that the troublesome RADC guys are gone), Will we be getting the equivalent graphs and/or the BAH Week in review report from Office=1, I have accumulated stats from

Journal Mail = Second quarter 1974

BAH's report for the past year, and am interested in making  
comparisons between them and our current use,

3K1

(DLS) 3=APR=74 09:32 30395 Request for Additional RADC  
Directories  
(JJOURNAL, 30395, 1:W)

31

(RJC) 2=APR=74 07:53 30380 Tickler for Week of 1 Apr = 5 Apr 74  
(JJOURNAL, 30380, 1:W)

3m



EJK 23-JUL-74 12:49 30939

Messages - second quarter 1974

(J30939) 23-JUL-74 12:49; Title: Author(s): Edmund J. Kennedy/EJK;  
Sub-Collections: RADC; Clerk; EJK;

Messages - Second Quarter 1974

(jun)

5-JUL-74 1056=PDT BAIR at SRI=ARC: User statistics  
 Distribution: MARTINEZ AT OFFICE=1, KENNEDY AT OFFICE=1, bair,  
 norton  
 Received at: 5-JUL=74 10:57:02

Bob, RADC has requested statistics on their use of Office=1.  
 It is not clear exactly what that includes, but in the  
 pre-office=1 days it was the listing by user of connect and cpu  
 utilization.  
 Would you put STONE and KENNEDY on the distribution for said  
 listing or let me know where they can get it? Thanks, Jim  
 Bair

8-JUL-74 0605=PDT MCNAMARA: NLS user  
 Distribution: NORTON AT SRI=ARC, stone, Kennedy  
 Received at: 8-JUL=74 06:05:46

I have a guy from the Air Force Auditors office who wants to  
 use NLS on a trail basis to dem his people on its application  
 to their job, it appears to be a neat application though i more  
 of the MIS vein which as you know we are tending not to push  
 these days. He has agreed to use our slots only during the off  
 hours our timewhich is from 2 on. He will require some training  
 which he has indicated he is willing to pay for. Could use a ID  
 his name is Mel Draper. He indicated a desire to visit you, he  
 in the LA ar TIP at UCLA. Could you let me know if you could  
 train and how much he will have to pay Thanks

8-JUL-74 0733=PDT CARRIER: New Directory  
 Distribution: KESSELMAN, RZEPKA, BERGSTROM, LAMONICA, carrier,  
 stone  
 Received at: 8-JUL=74 07:33:54

As of 8 July, there now exists a directory named "WWMCCS" and  
 the password is "roc",,,Bobbie

27-JUN-74 1024=PDT KENNEDY: note  
 Distribution: KENNEDY  
 Received at: 27-JUN=74 10:24:16

type help<cr> news<cr>

27-JUN-74 0849=PDT CARRIER: TPO  
 Distribution: TOMAJNI, MCNAMARA, BUCCIERO, PANARA, STONE,  
 KENNEDY, CARRIER, loreto, barnum, deconde  
 Received at: 27-JUN=74 08:49:24

Messages - Second Quarter 1974

- The TPO Milestone Charts are due 8 July...this is to remind you with next week being a short (July 4th) week, it will sneak up on you...Bobbie 1e1
- 27=JUN=74 0846=PDT CARRIER: BB&N Visit  
Distribution: KENNEDY, tomaini, mcnamara, panara, stone,  
carrier  
Received at: 27=JUN=74 08:46:03 1f
- Ed, the BB&N People are scheduled to come in on the 10tth of July...Frank will be on annual leave from 8 through 12 July...in case that should make any difference...Bobbie 1f1
- 26=JUN=74 1039=PDT OPER: EXERCISING A TERMINAL  
Distribution: KENNEDY, FEEDBACK  
Received at: 26=JUN=74 10:39:04 1g
- IN RESPONSE TO YOUR MAIL OF 6/26/0759 THE PROGRAM YOU ARE REFERING TO IS CALLED <NETSYS>TTYTST.SAV AND CAN BE ACCESSED BY CALLING IT FROM THE EXEC,  
THANX  
BOB MARTINEZ  
TYM/OFFICE=1 1g1
- 26=JUN=74 0627=pDT CARRIER: IBM people  
Distribution: STONE, tomaini, carrier, mcnamara, kennedy,  
panara  
Received at: 26=JUN=74 06:27:43 1h
- Stoney, Fred Lupino called me this morning (26 June) and they have their reservations already made so they will definitely be here Fridy = 28 June = 0900 hrs...there will be three of them = Fred Lupino, John Naughton, and Frank Finnegan...Bobbie 1h1
- 25=JUN=74 1213=PDT KENNEDY: test messages  
Distribution: CARRIER, kennedy  
Received at: 25=JUN=74 12:13:15 1i
- this is the second. Let me inow what you are getting. This one is in tenex ---- 1i1
- 21=JUN=74 0838=PDT KENNEDY: messagee 2  
Distribution: MCNAMARA, kennedy  
Received at: 21=JUN=74 08:38:22 1j
- zz 1j1

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21-JUN-74 0837=PDT KENNEDY: messag 1  
 Distribution: MCNAMARA, Kennedy  
 Received at: 21-JUN-74 08:37:40 1k

xxx 1k1

21-JUN-74 0757=PDT KENNEDY: Demonstration  
 Distribution: MCNAMARA, Kennedy  
 Received at: 21-JUN-74 07:57:56 11

Welcome to the world of the ARPANET. This message is provided to you using the send message capability of the TENEX at OFFICE=1. The message was generated at the IMLAC where you are reading it. The info was stored at the PDP-10 in California until now. It has been available since about a few milliseconds after it was sent. 111

20-JUN-74 1017=PDT CARRIER: Your Message  
 Distribution: KENNEDY, carrier  
 Received at: 20-JUN-74 10:17:28 1m

Frank has your info as of yesterday afternoon. 1m1

20-JUN-74 0619=PDT CAVANO: DEX  
 Distribution: KENNEDY, STONE, panara  
 Received at: 20-JUN-74 06:19:35 1n

I'm sure Stoney and I can find the time to brief me on DEX but I doubt that his is a complete solution. For one thing, nobody has made a study of the workload that the PSO is doing. If they do alot of editing as opposed to inputting, then DEX will have little impact. Kennedy's point that ultimately the DEX work must go on-line is well taken but it might be faster than a one to one ratio with being on-line with DEX (human type pauses would be eliminated). Of course, this would probably be the first thing to be run on the second shift. I still favor more training for the PSO (preferably from SRI) that would concentrate in making them more efficient and effective in the time they spend on the system. In fact all of us could use some kind of refresher course in the light of greater utilization of what we have. 1n1

19-JUN-74 1233=PDT CARRIER: Items brought up in Confessions  
 Distribution: STONE, carrier, panara, mchamara, Kennedy  
 Received at: 19-JUN-74 12:33:12 1o

Stoney, could you give me some info please? 1) IBM is coming to RADC 28 Jun.,, what does the briefing & demo concern, what people should know about it, do you need or want a conference

room set up, agendas, and whatever else you might want; and 2) the bit about ARPA/Procurement Officer - I didn't quite get the jest of it, does a write-up have to be done as far as description of Procurement Problems/Software Works,,,could you clue me in a little,,,would appreciate,,,thanks much,,,,,,Bobbie

1o1

19=JUN=74 1217=PDT CARRIER; Sylvia Baby  
Distribution: KENNEDY, carrier  
Received at: 19=JUN=74 12:17:50

1p

Ed, this is in regards to the Sylvia Mayer visit - what kind of briefing & demo is being given, what date (when you know for sure),,,could you keep me posted???,,,would appreciate,,,thanks,,,Bobbie

1p1

19=JUN=74 1012=PDT CARRIER; MAR/PAR  
Distribution: PANARA, KENNEDY, TOMAINI, MCNAMARA, bucciero,  
carrier  
Received at: 19=JUN=74 10:12:52

1q

You received a message by now that it's scheduled for 14 July,,,I take that back,,,it is now scheduled for 15 July 1974,

1q1

19=JUN=74 0908=PDT STONE; PSO vs Office=1  
Distribution: CAVANO, kennedy, mcnamara, panara  
Received at: 19=JUN=74 09:08:54

1r

I share your concern. It seems however, that a facility must be overloaded before one can justify purchasing additional service. Although we spend most of our time planning ahead (to avoid foreseeable problems like these), the plans aren't taken seriously,,,,,Just wait and see what happens when we also try to service the NSW community at RADC on top of every thing else!! Short range solutions are to buy more slots and /or restrict useage,,,neither of which I suspect management is willing to ce directly,,,second shift operation is an immediate possibility. I suspect that we will always (in the next year or so) be in a position of having less service than is demanded, because we go around selling and taking on jobs without increasing the service,,,,,All I can say is keep bitching, because it takes a lot of it before anyone listens,

1r1

19=JUN=74 0804=PDT CAVANO; Point of Concern  
Distribution: KENNEDY, STONE, MCNAMARA, PANARA, CAVANO  
Received at: 19=JUN=74 08:04:16

1s

In regard to confessions today and the bid for more work for

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the PSO to keep them busy, I have the following comment and question. By my calculation we have right now 5 members in the PSO and coincidentally 5 assured slots in Office=1. It seems to me that if we keep the PSO busy, then we will have also tied up our Office=1 utility, IS THIS WHAT WE REALLY WANT???

1s1

19=JUN=74 0740=PDT CARRIER: MAR/PAR Briefing  
Distribution: TOMAINI, PANARA, KENNEDY, MCNAMARA, carrier,  
bucciero  
Received at: 19=JUN=74 07:40:55

1t

The MAR/PAR Briefing has been postponed to 14 July 1974 per  
Capt Becker/DO,,,Bobbie

1t1

19=JUN=74 0740=PDT CARRIER: MAR/PAR Briefing  
Distribution: TOMAINI, PANARA, KENNEDY, MCNAMARA, carrier,  
bucciero  
Received at: 19=JUN=74 07:40:55

1u

The MAR/PAR Briefing has been postponed to 14 JULY 1974 per  
Capt Becker/DO,,,Bobbie

1u1

12=JUN=74 1417=PDT OPER: ARCH REQ,  
Distribution: KENNEDY  
Received at: 12=JUN=74 14:17:56

1v

THE FILE YOU REQUESTED PROGRAMS HAS BEEN RECOVERED AND IS BACK  
ON=LINE  
NOW,  
THANX  
BOBM  
TYM/OFFICE=1

1v1

12=JUN=74 1322=PDT RADC=DOR at USC=ISI: EXTENSION OF SRI EFFORT  
Distribution: STONE AT OFFICE=1, KENNEDY AT OFFICE=1  
Received at: 12=JUN=74 13:21:15

1w

I RECEIVED THE FOLLOWING MESSAGE TODAY, I THINK THAT THE  
"NORMAL" 120  
DAYS IS PROBABLY APPROPRIATE, DO YOU KNOW OF ANY REASON THAT  
IT SHOULD

NOT BE? PLEASE ADVISE.

12=JUN=74 08:40:32,767

Date: 12 JUN 1974 0840=PDT

From: EDWARDS

Subject: FOLLOW=ON TO AO 967 WITH SRI

To: RADC=DOR

cc: EDWARDS

1w1

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JACK,  
 I AM IN PROCESS OF PREPARING A NEW AO (2842) TO GET A NEW  
 CONTRACT  
 WITH SRI FOR A 12 MONTH 'CONTINUATION' OF THE NETWORK INFO  
 CENTER  
 (NIC), YOU WILL RECALL THAT THIS HAS BEEN ONE TASK UNDER THE  
 SUBJECT  
 AO 967,  
 WHAT I NEED, FOR PURPOSE OF FIGURING WHAT PART OF THE 12 MONTHS  
 FUNDING  
 TO INCLUDE, IS YOUR BEST GUESS ON WHEN THE CONTRACT MIGHT BE  
 INITIATED.  
 WE WILL NOT BE AUTHORIZING PRE-CONTRACT COSTS OR REQUESTING ANY  
 SPECIAL  
 TREATMENT AND WE RECOGNIZE THIS WILL CAUSE A GAP BETWEEN OLD  
 CONTRACT  
 AND THE NEW ONE,  
 ASSUMING YOU GET THE SIGNED AO BY 1 JULY WHAT IS A REASONABLE  
 DATE FOR  
 PROCUREMENT TO COME TO FRUITION??  
 FRED,

-----

HEY ED=IT LOOKS LIKE IT'S WORKING==LET ME KNOW==JACK,

1w2

11=JUN=74 0705=PDT CARRIER: RADC=77's  
 Distribution: KENNEDY, McNamara, Iuorno, Stone, Cavano,  
 LaForge, Panara, Liuzzi,, LaMonica, Wingfield, daughtry,  
 Bergstrom, Rzepka  
 Received at: 11=JUN=74 07:05:19

1x

As of June 1974 all RADC=77's must be initialed by Lou  
 Cassetta/ISF prior to submission to ISM. Revised RADC=77's  
 dated May 1974 must also be used. This is for your  
 information!

1x1

11=JUN=74 0513=PDT CARRIER: PSO  
 Distribution: KENNEDY  
 Received at: 11=JUN=74 05:13:25

1y

Just to let you know that I received your message,,good idea  
 and will do,,Bobbie

1y1

10=JUN=74 1502=PDT KENNEDY: tpo  
 Distribution: KENNEDY, laforge, mcnamara  
 Received at: 10=JUN=74 15:02:28

1z

info for ELF, I have asked for the following file to be  
 retrieved,  
 (LJOURNAL, 17860, 11w)

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(KJOURNAL, 17785, 1:w)

(MJOURNAL, 18355, 1:w)

These are the ones that will be needed for the TPO redo, What is the schedule and where are the instructions??

1z1

10-JUN-74 0703=PDT CARRIER: PSO

Distribution: KENNEDY, tomaini, bucciero, carrier, panara, stone, cavano, mcnamara,, luorno, rzepka, liuzzi, bergstrom, wingfield, daughtry

Received at: 10-JUN-74 07:03:38

1ae

As of 10 June 1974, I will no longer be proof reading anything that goes out of the PSO office. Two reasons for this action; 1) I get too bogged down just reading all the documents (I really want to say crap) and 2) try to get the girls accept the responsibility for the jobs they are doing,..You will still be giving me the work to be done but from then on, whoever I assign the job to, will be interacting with you. If there should be any problems, please let me know,..OK,.. Bobbie

1aa1

6-JUN-74 1040=PDT CARRIER: Jovial Document

Distribution: KENNEDY, stone, tomaini, bucciero, carrier, mcnamara, panara

Received at: 6-JUN-74 10:40:15

1aa

For your info - I am done editing the JOVIAL document and it is now back in Stoney's hands. There are some tables left in the document that I think both Stoney and I have tried to ignore so my next step is to try to see what can be done with them,..Bobbie,..I will give the word to Landes and Nelson as far as the editing job is concerned,..

1aa1

4-JUN-74 0633=PDT DAUGHTRY: IDS re=compilations under S/R 8 and QUTD utility

Distribution: KENNEDY, daughtry, panara, cavano, luorno, tomaini, mcnamara

Received at: 4-JUN-74 06:33:15

1ab

ISIM (Capt, Daughtry)

1ab1

IDS re=compilations under S/R 8 and QUTD utility

1ab2

ISIM ISI in=turn

1ab3

1. An attempt has been made during the period 13 May to 4 June to re=compile the programs necessary to load the ISI Integrated Data Store data base with calls to the PRC data base management system monitors. No apparent problem was encountered in incorporating the monitor calls; however, none of the compiled



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IDS programs operate successfully in a GELOAD activity (execution). Each program tend to end under abnormal conditions leaving the allocated data base files in ABORT LOCK status. It should be pointed out that object decks created under S/R 6 using the same identical source decks continue to execute properly even under S/R 8. The problem with execution of object decks created under S/R 8 cannot be resolved by me at this point in time.

1ab4

2. Another apparent problem with maintaining the data base integrity is the unavailability of the IDS data base dump utility (QUTD). This routine is normally used to dump all the ISI data base files to one tape for use as a recovery medium (backup) when files are in abort lock status. The Honeywell software people are presently working on the problem and are expected to have a fix on the problem soon; however, the Phoenix patch does not resolve completely the problem of not being able to dump ALL IDS files to one tape. In other words, even with the present correction being made, it will be necessary to dump each relatively small file to its own tape (five tapes) to satisfy the QUTD utility limitations. Under S/R 6 we were able to dump all five files to one tape. At the present time our backup tape dates back to March 1974. I should point out that we can resort to restoring lost files via the facility save tapes. In that case Bob Doane will be asked to run special file system jobs to reload the files which is expected to be a tedious process.

1ab5

David L. Daughtry

1ab6

(may)

2

24-MAY=74 1559-PDT BAIR: TR  
Distribution: KENNEDY, bair at SRI-ARC  
Received at: 24-MAY=74 15:59:46

2a

Ed, I believe I specified the maximum number for an author, 20 I think. I would like as many as I can get, but ten would be adequate. Of course they can be ordered from DDC I guess. I need to get copies to people who requested them: Capt Barry Landsen, Bob Ruberti, and some other names I can't recall at the moment. They are both in IR. Also would like copies for Mary Miccoli, and Dr. Borden, and Dr. Conrath, and Dr. Richman (SU). I don't know if they really push bair, but these people would have copies and want them.  
At ARC we are referencing the thing in our proposals and Final Report to ARPA, so request do come for hardcopy.  
Perhaps I could contact them directly? Who? Glad you find

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them of some value to push NLS, Wish that you guys were writing the Phase two,  
I am publishing another reference for you along that line:  
The Computer as an Interpersonal Communication Device: A Study of Augmentation Technology and It's Apparent Impact on Organizational Communication, David W. Coonrath & James H. Bair, Proceedings of the Second International Conference on Computer Communication, Stockholm, Sweden, August, 1974, It does not mention RADC, that's how we got around clearance problems, It was what seemed possible...and it wasn't done under contract, nor published for monetary gain(darn), It may be of use to you, so I'll send a prepublication copy,  
Thanks, ciao, Jim

2a1

24=MAY=74 1603=PDT BAIR: Journal Indexes  
Distribution: KENNEDY, stone, feedback  
Received at: 24=MAY=74 16:03:49

2b

It turns out that no indexes have ever been updated at Office-1, What's there g'ott moved over by default as a result of the transfer to that machine, We are rectifying the situation, and hope to have a complete master index and catalog available by June first, Sorry about not having it there, but I thought the programs were being run, Thanks for letting us know,

2b1

29=MAY=74 0646=PDT BUCCIERO: management assessment report(par briefing)  
Distribution: KENNEDY, bucciero, panara, carrier, mcnamara, nelson  
Received at: 29=MAY=74 06:46:02

2c

the management assessment report meeting that was to be held on 29may 1974 has been changed to 4 june 1974, capt becker will be here at nine o'clock tuesdayon that day, , also the briefing has been changed to 1 july 1974, amemo from do will follow, any questions to whether the proposed braifer will be on leave or travel please let bobbie or tom bucciero know so as not to have any priblems to who will give the briefing,

2c1

24=MAY=74 1032=PDT CARRIER: PSO Girls  
Distribution: KENNEDY, stone, mcnamara, carrier  
Received at: 24=MAY=74 10:32:44

2d

It was my understanding that we are to use these girls strictly for NLS services...Example again of what is happening here again...Division office needs somebody right away to telecopy...and "use one of the girls from the PSO"...which means Duayna has to go as was said...I am beginning to regret

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this very much,,Division office still has Barbara and ISC has Debbie (High School Student) and ISF also has a student aid,,why must it always be Duayna,,I don't think it is being fair to her,,Duayn is in a little higher class now,,she shouldn't be used like this,,this point should be brought across to TOM AND Division office,,The PSD is not for the whole DIVISION!!! Does anyone care to comment? Or maybe the ground rules should be changed,,Bobbie

2d1

23=MAY=74 1630=PDT BAIR: RADC=TR=74=79  
Distribution: KENNEDY, bair at SRI=ARC  
Received at: 23=MAY=74 16:30:54

2e

Sounds interesting, most unusual title, How could one get copies of that? Incidentally, thanks very much,,may even buy you a drink on that one,

2e1

23=MAY=74 0717=PDT BUCCIERO: management assessment review  
Distribution: KENNEDY, mCnamara, panara, bucciero, carrier, nelson  
Received at: 23=MAY=74 07:17:21

2f

the briefing for this item has been scheduled for june 17,1974, the two subjects that will be briefed are; ENGINEERING SOFTWARE and ARPS/SRI dms security is still not definite, but the briefer should proceed as if the briefing were to be given. capt, beecker will be in the division on TUESDAY 28 may 1974 to talk to the briefers as to what formt should be used and to answer any other questions you may have, the time scheduled is 0900, i guess thats important too,each of the briefers has copy the package that was given to the branch office, if you don't see boobie and she will have a copy xeroxed for you,

2f1

22=MAY=74 0526=PDT CAVANO: journal system junk  
Distribution: KENNEDY  
Received at: 22=MAY=74 05:26:46

2g

why would you send me Mac's whole file Staffmeet, That is available to us w/o you journaling it to me, If you want to highlight something, journal only that part of the file,,,, not the whole thing,

2g1

15=MAY=74 0743=PDT DAUGHTRY: LOST VUGRAPHS  
Distribution: KENNEDY, mCnamara, LaForge, Stone, Panara, Cavano, Iuorno, Calicchia,, Liuzzi, VanAlstine, Rzepka, Lamonica, Bergstrom, Lombardo,, Daughtry, Wingfield, Cafarelli, Carrier  
Received at: 15=MAY=74 07:43:04

2h

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HELP ME PLEASE...several weeks ago someone borrowed several bound vu-graphs from Dave Daughtry relating to I=D-S... PLEASE ..if you have them, return same to Capt Daughtry to day 15 May...I need them for tomorrow...THANKS

2h1

15-MAY-74 0610=PDT LAFORGE: machines  
Distribution: KENNEDY, bucciero  
Received at: 15-MAY-74 06:10:34

21

where are these machines to be used?

211

15-MAY-74 0455=PDT CARRIER: Mac's File Heilmeyer (Correct spelling!)

Distribution: KENNEDY, carrier  
Received at: 15-MAY-74 04:55:59

2j

Some people really know how to get around things!!! I'm glad I have you around to depend on...Bobbie

2j1

14-MAY-74 1620=PDT FERGUSON: <LJOURNAL>15264

Distribution: KENNEDY  
Received at: 14-MAY-74 16:20:35

2k

THAT FILE IS BACK, SORRY THAT IT TOOK 2 DAYS, BUT OUR OPERATOR AT ARC IS ON VACATION, AND I AM OVERLY BUSY, FERG

2k1

14-MAY-74 1248=PDT KENNEDY: message for Marcelle

Distribution: KENNEDY, mcnamara  
Received at: 14-MAY-74 12:48:06

21

please give me three hours annual leave for tuesday 14 May, Should be SL But i still don't have any,

211

13-MAY-74 1521=PDT KENNEDY: Message for Marcelle

Distribution: KENNEDY, mcnamara  
Received at: 13-MAY-74 15:21:22

2m

Please give me three hours annual leave for Monday 13 May,

2m1

13-MAY-74 1123=PDT CAVANO: software documentation paper

Distribution: KENNEDY, stone, laforge, panara, mcnamara  
Received at: 13-MAY-74 11:23:24

2n

A paper at the NATO seminar dealt with software documentation techniques in a short paper, A prior message was a bit garbled sorry==Iwas out=typing the system) but the paper is available from me on request,

2n1

Messages - Second Quarter 1974

13-MAY-74 1114=PDT KENNEDY: Scout=O=Rama and Xports  
 Distribution: KENNEDY, laforge, thayer  
 Received at: 13-MAY-74 11:14:55

2o

Maj/Dr Patterson would like to sign for four machines to be used tthe weekend Of the thirty first. Will you pick out four good ones and give the numbers to Tom The Butch so he can set up receipts. Also will need xtra paper and checkout run on the care and feed ing of the Machines,

2o1

13-MAY-74 1113=PDT CAVANO: DRG Paper  
 Distribution: KENNEDY, stone, panara, laforge, mcnamara  
 Received at: 13-MAY-74 11:13:56

2p

One of the papers presented at he Nato seminar is entitled "The Develop<sub>m</sub>ent of Real-Time System Documentation Techniques If anyone is nterestthis paper, it is ble from me

2p1

11-MAY-74 1428=PDT LAFORGE: 427m fy 75 manPower  
 Distribution: KENNEDY, carrier, mcnamara  
 Received at: 11-MAY-74 14:28:33

2q

Bobbie==have somebody pull a file called fy 75 out of my directory and put into memo form for submission to ISIMON 13 may 75. This is a suspense date back to DOT and should not be ignored. Have someone coordinate with ROCK informally. There is no way for you to contact me---so I'll call if possible Monday to see what's happening. BYE

2q1

11-MAY-74 1318=PDT CAVANO: short term course  
 Distribution: KENNEDY, stone, mcnamara  
 Received at: 11-MAY-74 13:18:20

2r

USC is offering a onw week course entitled "Modern Techniques for the Design and Construction of Software" whose main emphasis will be on tools: structured programming, documentation standards, system development languages, etc. It is intended for people in software development who are concerned with both their own productivity and the productivity of a group. Lecturers include guys from SDC, TRW, USC, CSC. There are a few more details available from me if anyone is interested. It might behoov us to get somebody down there to become "experts".

2r1

10-MAY-74 1205=PDT LIUZZI: wwmccs message  
 Distribution: KENNEDY  
 Received at: 10-MAY-74 12:05:18

2s

i got your message

2s1

Messages - Second Quarter 1974

9-MAY=74 0531=PDT MCNAMARA: WWMCCS

Distribution: KENNEDY

Received at: 9-MAY=74 05:31:39

2t

I got your message my goodness this system is neat,

2t1

8-MAY=74 1726=PDT LAFORGE: wacky messages, due dates ,love

Distribution: KENNEDY, thayer, cafarelli, carrier

Received at: 8-MAY=74 17:26:26

2u

here i am at 2030 hours on a wed nite reading such a bunch of garbage you wouldn't believe! I hhave two suspense dates , bobble, that i did not see anywhere---one is the personnel form but the most important is the 427m manpower support report to DO which is due on the 13th of may, it will be the last item in the 427m file and i'll send you a message telling you how to handle it, Kennedy---Keep track of the preceeding because it is apt to turn into a real problem---we are probably going to tell SD to go ----up a rope as far as any support on this program is concerned, Craig---consider yourself advised that there is a problem, onna i love you! what the hell ---might as well give it the old school try, right?

2u1

8-MAY=74 1358=PDT KENNEDY(EJK) at OFFICE=1: Briefing on the Personnel Service Organization - 9 May 1100 - Conf Rm

1A

Distribution: RADC=TIP

Received at: 8-MAY=74 13:59:37

2v

ISI has established a personnel Service Organization(PSO).

2v1

The major function of the PSO is to provide services to the members of ISIM and to the WWMCCS Support Activity Personnel,

2v2

These services initially will be to input material into the NLS, Edit, Output in various forms including final products such as memos, letters, reports etc. Included will be inputs to the IDS, using the NLS or by keypunching or on-line,

2v3

In order to perform these functions, it has been necessary to establish a focal point for control and approval of completed work, Bobbie Carrier is the focal point,

2v4

IN ORDER TO DO THE JOB EFFICIENTLY and to minimize friction SOP's have been established,

2v5

A briefing has been given to the members of the PSO by John Mcnamara, They include Bobbie, Anna, Donna, Sharon and Duayna,

2v6

Messages - Second Quarter 1974

On 9 May at 1100 in Conference Room 1A, I will brief the users and potential users on the services that are available and the procedures to follow to insure the most effective use of the services. The SOP'S are available and they have been approved by F. Tomaini,

2v7

This meeting is mandatory for members of ISIM and particularly for members of the WWMCCS team. All others are invited,

2v8

8-MAY=74 1040=PDT CAVANO; wwmccs sub=group  
Distribution: KENNEDY  
Received at: 8-MAY=74 10:40:20

2w

I recieved your journal item addressed to the WWMCCS sub=group,

2w1

2-MAY=74 1159=PDT BERGSTROM; IMLAC SCHOOL  
Distribution: KENNEDY, stone  
Received at: 2-MAY=74 11:59:59

2x

I would like a quick course on the IMLAC,,if either of you could find the time to give me a basic course I would appreciate it,

2x1

2-MAY=74 1111=PDT LAFORGE; Kennedy  
Distribution: KENNEDY  
Received at: 2-MAY=74 11:11:58

2y

i will be on jury duty for probably two weeks beginning 6 may 74, if you need anything during that period(unlikely), call me chez moi,

2y1

1-MAY=74 1110=PDT KENNEDY(EJK) at OFFICE=1; Just a Test  
Distribution: EJK(KENNEDY), CARRIER, AAC(CAFARELLI)  
Received at: 1-MAY=74 11:10:05

2z

(DLS) 30-APR=74 15:00 30588 Comments on IBM Structured  
Programming (LJOURNAL, 30588, 1:w) Effort

2z1

Comments: There must be more to it than I see on the surface. I would like to talk with some in Nelson's section. I think it would benefit both of us to better understand the other's area,

2z1a

1-MAY=74 0513=PDT THAYER; CRAIG SUGGESTION  
Distribution: KENNEDY  
Received at: 1-MAY=74 05:13:37

2a0

I BIEVE YOUR EVALUATION WAS MORE THAN FAIR,HOEVER IT SEEMS

Messages - Second Quarter 1974

THAT THE TWO GROUPS IN BLDG 106 COULD BE USING THE SUGG  
NOW, ANYWAY I APPRECIATE YOUR TAKING THE TIME TO EVALUATE IT ,

2a01

(apr)

3

29-APR-74 0556=PDT CARRIER: Happy Secretaries Week  
Distribution: KENNEDY, McNamara, IUORNO, LaForge, Panara,  
Liuzzi, Stone, Bergstrom, Daughtry, Wingfield, Bucciero  
Received at: 29-APR-74 05:56:53

3a

I wish to thank you all for the \$10.00 gift certificate at  
Goldberg's...believe me, I can use it.....it was sweet of  
you...thanks again...Bobbie

3a1

29-APR-74 0550=PDT CARRIER: Impatient SOB Bugging me  
Distribution: KENNEDY  
Received at: 29-APR-74 05:50:38

3b

OK!!! I won't be one...when I am, you tell me...by the way,  
thank you for contributing to the \$10 gift certificate...I can  
use it...I appreciate it very much!!!

3b1

26-APR-74 1736=PDT BAIR: TR etc,  
Distribution: KENNEDY, bair  
Received at: 26-APR-74 17:36:04

3c

Ed, thanks very much for looking into it. I'll wait for more  
info from you before contacting Barnum and then if necessary,  
Col T,  
I think I'm getting all you msgs, even the one about the TR at  
ARC. Hmmmm when msgs are queued, the system sends them at the  
next available time the receiving system is up,

3c1

26-APR-74 1332=PDT MARTINEZ: ARCH REQ  
Distribution: KENNEDY  
Received at: 26-APR-74 13:32:24

3d

THE FILE YOU HAVE REQUESTED <GJOURNAL>21506 HAS BEEN  
RECOVERED AND IS BACK ON LINE NOW,  
THANKX  
BOBM  
TYM/OFFICE=1

3d1

25-APR-74 0731=PDT DECONDE: HELP!  
Distribution: KENNEDY Received at: 25-APR-74 07:31:17

3e

Dr. Kennedy, do you think that you can arrange to see me some  
time today re this dumb machine. It is doing some that I  
don't understand. The "DING A LING">

3e1



Messages - Second Quarter 1974

25-APR-74 0701=PDT DECONDE; Bair's Report & AFBITS Ltr  
Distribution; KENNEDY Received at: 25-APR-74 07:01:05 3f

Dr, Kennedy\* I have checked w/Al on both items also, Re  
Bair's report 3f1

Al said that he saw it and that it left IS, Where it went I  
have not found out as yet, That will be next, Re AFBITS Memo,  
I too learned that it left IS, See you later, Acd, 3f2

24-APR-74 1356=PDT KENNEDY; Terminals - Care, feeding, maintaing  
and controlling  
Distribution; KENNEDY, laforge, stone  
Received at: 24-APR-74 13:56:07 3g

For Mr, La Forge - Mr, McNamara has decreed that you are the  
chief weenie on the terminals,  
He wants a file maintained ON THE SYSTEM as to their status,  
WHO WHAT WHEN & WHERE,  
In addition, he would like you to establish procedures for  
controlling them, ie, sign out and permission to do so,  
The people wanting to 'borrow' terminals should come to you and  
ask,  
So, set it up, check it with me and then disseminate the info  
using the system, so everyone knows the proocedures,  
ND I ddont know where all the M's and O's and L's are coming  
from, 3g1

24-APR-74 1201=PDT TOMAINI; AFBITS letter  
Distribution; KENNEDY, carrier Received at: 24-APR-74  
12:01:35 3h

Yes, your letter left the DIVISION yesterday,,.yes, I know  
"MY??" PSD office are using "l" for "1" but that is being taken  
care of, 3h1

24-APR-74 0642=PDT DECONDE; mail and messages; questions  
answered  
Distribution: KENNEDY  
Received at: 24-APR-74 06:42:41 3i

dear dr Kennedy, in response to question 1\* I gave a copy of  
Bair's final  
report to A, Barnum, However, I don't know what he did with it,  
I (or you) will have to check with him or Mitzi,  
In regard to question No, 2, that item I never saw, Again,  
this will have to be checked  
out with either Mitzi or Al, I will see if I can get to either  
of them today, OK Re "No mail " for me, I don't feel too bad,

Messages - Second Quarter 1974

This only means less work  
 less work for me, H the typing machine improved any of late?  
 At the moment I just b"Blue" it, see you, ACD 311

24-APR-74 0517=PDT MCNAMARA: PSO  
 Distribution: KENNEDY, carrier, iuorno  
 Received at: 24-APR-74 05:17:10 3j

I though we said wensday but thursday is okay with me 3j1

23-APR-74 1408=PDT KENNEDY: Preliminary meeting oon the care and  
 feeding of the PSO  
 Distribution: KENNEDY, carrier, iuorno, mcnamara, stone  
 Received at: 23-APR-74 14:08:37 3k

JLM would like to have a meet on Thursday at 1600, Then on  
 Friday there will be a meet with the entire PSO,  
 Purpose of the Thursday meet will be to discuss SOP's and  
 Protocols ( who does what and to whom)  
 Purpose of the Friday meet will be to spell out the procedures  
 etc and try to build up spirit of coopertiveness etc, 3k1

23-APR-74 1328=PDT TOMAINI: previous message from tomaini  
 Distribution: KENNEDY, stone, mCnamara, carrier  
 Received at: 23-APR-74 13:29:01 3l

signed Bobbie, 311

23-APR-74 1327=PDT TOMAINI: your message re: PSO Training  
 Distribution: KENNEDY, stone, mcnamara, carrier  
 Received at: 23-APR-74 1716:53=PDT 3m

Stoney, sounds beautiful but why Friday afternoons?Anything you  
 say goes, 3m1

23-APR-74 1214=PDT MCNAMARA: confessions  
 Distribution: KENNEDY, laforge, stone, iuorno, wingfield,  
 daughtry, lombardo,, lamonica, calicchia, rzepka  
 Received at: 23-APR-74 12:14:22 3n

confessions has been changed from 8:30 to 1:15 tomorrow, 3n1

23-APR-74 1204=PDT MCNAMARA: confessions  
 Distribution: KENNEDY, iuorno, mcnamara, stone, Panara,  
 bergstrom, wingfield, daughtry,, lombardo, vanaistine, lamonica,  
 calicchia, rzepka  
 Received at: 23-APR-74 12:04:02 3o

Messages - Second Quarter 1974

confessions tomorrow morning at 8:30,  
please be there on time - no tardiness,

301

23-APR=74 0804=PDT STONE: PSD Training  
Distribution: KENNEDY, carrier, mcnamara  
Received at: 23-APR=74 08:04:11

3p

There seems to be a number of basic skills that are possessed by several individuals in the PSO, but not all are possessed by all,,if you get the meaning. It would be nice to think that people will pick up things by osmosis?? But I think a series of classes is in order to make sure that everyone is at the same basic level. Some of the engineers/managers might want to attend also. How about every Friday afternoon,,say 2-4??? I would be willing to give the first few rounds,,I think the first go around should cover the why, who, what, where, when of the PSO,,which has not really been done yet,,Comments ??

3p1

23-APR=74 0750=PDT TOMAINI: Car Pool Implementation Date  
Distribution: KENNEDY, Tomaini, Bucciero, McNamara, Stone,  
Panara, Cavano, Rzepka, LaMonica, Wingfield, Bergstrom,  
Lombardo, Carrier, Cafarelli, Iuorno, Liuzzi, LaForge,  
Daughtry  
Received at: 23-APR=74 07:50:33

3q

The effective date of parking restrictions involving car pools will be 29 Apr 74 as currently planned by the 416 CSG. All personnel are reminded that as of that date, previously published restrictions on parking will go into effect, personnel not assigned reserved parking places or in possession of car pool permits may park in open parking areas to be announced prior to implementation date,,per RADC Staff Bulletin dated 19 Apr 74 No, 31,,Bobbie

3q1

23-APR=74 0640=PDT TOMAINI: Comments made by EJK in re to RJC's comments  
Distribution: KENNEDY, McNamara, Stone  
Received at: 23-APR=74 06:40:18

3r

1. PSD girls/section girls

a. If the section girls are to be involved, why not now? Already, the PSO is in operation even though no one has confirmed it (at least not to my knowledge),,,

2. Responsibilities

a. OK babe (EJK),,,I find it difficult to give my responsibilities to some one else,,but if that is what is to be done, ok,,I'm not going to argue,,I always felt what I was responsible for, I felt I should do,,but you're right,,time

Messages - Second Quarter 1974

has come to change hands,,,BUT I don't think it's going to work.

## 3. ABSENCES

a. How can absences (as far as Duayna and Utica College gils be pre-programmed when they already have a schedule that they cannot change,,,BUT, summer is coming and soon we will have these girls full-time so it shouldn't be too much of a problem for now.

## 4. TRAINING

a. EVERYBODY is going to train everybody else,,,NEVER WORK!

5. I WISH I WOULD HEAR FROM SOMEBODY ELSE'S MIND BESIDES EJK,,,Sometimes, I feel as if EJK and RJC have a cold war going on,,,Bobbie

3r1

23-APR-74 0600=PDT TOMAINI: PSO

Distribution: KENNEDY, McNamara, Stone, LaForge, Liuzzi, Iuorno, Wingfield, Bergstrom, Daughtry, Panara

Received at: 23-APR-74 06:00:14

3s

WE COULD STAND SOME WORK,,,PLEASE,,,Bobbie

3s1

22-APR-74 1858=PDT BAIR: Lost files

Distribution: KENNEDY, daughtry, stone

Received at: 22-APR-74 18:58:38

3t

Dear Dave,

Due the limited, finite computer resources available any file that is not accessed within 21 days is archived == stored on tape. It can be retrieved by using the interrogate command at the executive level. If you have any further problems, please feel free to sndmsg to Feedback,

Sincerely,

Jim Bair

3t1

22-APR-74 1844=PDT DCROCKER at USC=ISI: ELF AT OFFICE

Distribution: KENNEDY, STONE at OFFICE-1

Received at: 22-APR-74 18:45:55

3u

WHO IS IT THAT YOU ARE ADDRESSING YOU NOTES TO ELF TO? THAT DIRECTORY WAS INTENDED AS A MEETING PLACE FOR THE ELF ADVISORY COMMITTEE, THAT ISN'T MEANT TO SOUND HEAVY; IT'S JUST THAT YOU MESSAGES ARE WAY OUT OF CONTEXT, FOR ANY OF THE PLANNED USERS OF THE DIRECTORY,

3u1

DAVE,

3u2

22-APR-74 0516=PDT DAUGHTRY: Lost of files in Daughtry Directory

Distribution: KENNEDY, stone, daughtry, bair  
 Received at: 22=APR=74 05:16:19 3v

ISIM (CAPT Daughtry) April 22, 1974 3v1

Lost of files in Daughtry Directory 3v2

Stone, Kennedy 3v3

1, This letter is to inform you that unfortunately I have lost all files in my directory up to the date of March 8 1974, I have no idea why such has happened. It may be important to note that the one file that is available is the one created on March 8th, the Friday before I left on a 30 day TDY. 3v4

2, I am requesting your assistance (Kennedy) in getting the files re-established as there are very important items included in the lost data. Please call me as soon as you get in this morning. 3v5

David L, Daughtry 3v6

20=APR=74 2124=PDT BAIR at SRI=ARC: Net mail from site SRI=ARC  
 Distribution: KENNEDY  
 Received at: 20=APR=74 21:25:54 3w

blap 3w1

20=APR=74 2110=PDT BAIR at SRI=ARC: the TR on AKW  
 Distribution: KENNEDY  
 Received at: 20=APR=74 21:11:57 3x

I'm continually in need of the reference for the RADC study I did. Like a TR number...Of course it must go through first, Did it? Can you tell me what it's status is? (It's never to be forgot...) would apprecia any help, Jim 3x1

19=APR=74 0515=PDT CARRIER: restructuring job  
 Distribution: KENNEDY  
 Received at: 19=APR=74 05:15:12 3y

Ed, how can I ever thank you????I need more people like ad Stoney in the PSD (HA HA!!!)...I am going to go back and mjust clean up typos,..you're a doll,..Bobbie 3y1

Messages - Second Quarter 1974

- 18-APR=74 1635=PDT STINSON: message  
 Distribution: KENNEDY  
 Received at: 18-APR=74 16:35:14 3z  
 received }ous messge thaox Stinsoo 3zi
- 16-APR=74 1154=PDT FEEDBACK: File restore  
 Distribution: KENNEDY, stone, feedback 3ae  
 Received at: 16-APR=74 11:54:19  
 Ed, Tymshare was unable to restore a good version of your initials file? Sorry for the delay. If still a problem let me know and we'll try an alternative route. Duane and Ed, I'm still trying to get Journal,14724, restored. Problem with it being archived on the ARC machine a long time ago. We have to work out procedures for handling this, Jim 3aei
- 15-APR=74 1404=PDT MCNAMARA: Memo to Comm  
 Distribution: KENNEDY, luorno 3aa  
 Received at: 15-APR=74 14:04:03  
 It is important that the memo to comm get out as a p,I think it is ready to go in your file Ed make it your number one goal,Second,Dick is ready for training any time you want to start,Nelson that is and finally,a working agreement memo with Ops is needed,see u, 3aa1
- 15-APR=74 1146=PDT DECONDE: absence of barnum  
 Distribution: KENNEDY, panara, cavano, liuzzi, mcnamara, bucciero, tomaini, stone, laforge, carrier, deconde, cafarelli 3ab  
 Received at: 15-APR=74 11:47:03  
 to whom it may concern, Mr. barnum will be on leave until thursday, however, you may still input any necessary to the division office and i will see to it that it gets to the appropriate individual, whomever it may be at that particular moment, okay, 3abi
- 15-APR=74 1140=PDT TOMAINI: ISI Confessions  
 Distribution: KENNEDY, Cavano, Panara, Stone, Tomaini, Carrier, Bucciero, McNamara, Liuzzi, Bergstrom, Daughtry, LaForge, Barnum, DeConde, wingfield, Lombardo, luorno, LaMonica, Rzepka 3ac  
 Received at: 15-APR=74 11:40:44  
 ISI Confessions has been cancelled and will be held 24 April 1974, same time, same place,,,Bobbie 3aci

Messages - Second Quarter 1974

12-APR=74 1355=PDT OPER: EJK,NLS  
 Distribution: KENNEDY  
 Received at: 12-APR=74 13:55:18 3ad

WE RESTORED EJK,NLS FROM THE BACKUP TAPE FOR 10 APRIL, IT IS AN  
 EMPTY FILE (70 PAGES BUT 0 BYTE COUNT), ARE YOU SURE IT WAS  
 OK AS OF 10 APRIL? 3ad1

12-APR=74 1153=PDT FEEDBACK: File restore  
 Distribution: KENNEDY, feedback, oper  
 Received at: 12-APR=74 11:53:30 3ae

Oper: (Bob M ?) Did you restore <kennedy>EJK to the latest  
 good version yet? As per his sndmsg of 11 apr 1526, If you  
 have just wanted to check, but you havent please send a copy of  
 the restore notification to FEEDBACK, This will help us  
 greatly help the users and keep track of things, (Excuse the  
 typos,...) 3ae1

12-APR=74 1045=PDT STONE(DLS) at OFFICE=1: Suggested outline for  
 talk to PSO personnel...to be given  
 by jlm/ejk/dls??  
 Distribution: RJC(CARRIER), FJT(TOMAINI), JLM(MCNAMARA)  
 Received at: 12-APR=74 10:46:14 3af

EJK(KENNEDY@) AAC(CAFARELLI@) 3af1

<STONE>PSO,NLS;2, 12-APR=74 10:41 DLS ; 3af2

REASONS FOR CREATING 3af3

Sharing of workload 3af4

Consistency in procedures 3af5

part of overall experiment 3af6

Cross training 3af7

specialities 3af8

absent 3af9

Basis for org use of NLS 3af10

Training in NLS 3af11

INCLUDES 3af12

## Messages - Second Quarter 1974

To start	3af13
Bobbie	3af14
Tom	3af15
Becky	3af16
Anna	3af17
UC helpers	3af18
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Marcell	3af20
Carm	3af21
RESPONSIBILITIES	3af22
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increased competence	3af35
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ssss	3af37



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To the org	3af38
increased productivity	3af39
improved response time	3af40
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PROCEDURES	3af42
Bobbie is control point/approver	3af43
Rules of thumb	3af44
make use of structure	3af45
learn/use directives	3af46
be consistent	3af47
MISC	3af48
Excellence	3af49
Service attitude	3af50

12=APR=74 0945=PDT DECONDE: missing message  
Distribution: KENNEDY, laforge, deconde  
Received at: 12=APR=74 09:45:03 3ag

eds, I still can't understand what happened to that "missing message" as  
I seem to have done everything right, I just wanted BOTH of you to know that I have been getting on the machine every day this week, happy easter, see you on monday, signed "ding a ling"  
P.S. Mr. barnum will be on leave, I thin, the beginning of next week, I will notify aal users of this monday a.m. 3ag1

11=APR=74 1146=PDT CARRIER: Reply to EJK msg re: Tycoms  
Distribution: KENNEDY, Tomaini, McNamara, Stone, Carrier  
Received at: 11=APR=74 11:46:13 3ah

TO EJK: The number of machines available is not important...yes, I can count...it is the principle of the thing...You are not concerned about Patterson or the "other dude" because they do not bug you, they come bug me and I JUST HAVEN'T LEARNED TO SAY NO YET...but I guess that is my problem and not yours...so I will try to keep "cool" but once in a while it helps a little if a person can get things off their

chest and that was all I was doing,,,so let's just forget about the whole thing ...I

ll try not to sound off again,,,,,so sorry,,,Bobbie 3ah1

10-APR-74 1153=PDT LAFORGE:

Distribution: KENNEDY, Thayer, Barnum, DeConde, Tomaini,  
Carrier, Bucciero, McNamara, LaForge, Stone, Panara, Cavano,  
Iuorno, Calicchia, Liuzzi, VanAlstine, Rzepka, LaMonica,  
Bergstrom, Lombardo, Daughtry, Wingfield, Cafarelli

Received at: 10-APR-74 11:53:23 3a1

please read a file in my directory called AKWNOTIONS, 3a11

10-APR-74 0518=PDT MCNAMARA: staffmeet

Distribution: KENNEDY

Received at: 10-APR-74 05:18:45 3aj

I would like to hold a staffmeet at 1 today as I am stuck on ISC confess,I have prepared a file with items which you can peruse to save time.The main odr of business is pr,s,pso and working agreements with comm and do ,I read your mess on terminals lets assign someone to get a list of how many and where they all are, 3aj1

9-APR-74 1405=PDT FEEDBACK: Archive restore

Distribution: KENNEDY, stone, feedback

Received at: 9-APR-74 14:05:11 3ak

Ed: Did you get your files restored yet from archive? If it took more than one day, please tell me the date, and filename of the requests and any other pertinent info, waiting for your reply, Jim Feedback 3ak1

9-APR-74 1204=PDT MCLEAN: New user

Distribution: KENNEDY, stone, mclean

Received at: 9-APR-74 12:04:45 3a1

Just a test message to see if this creates a message.txt file in johns directory 3a11

9-APR-74 1026=PDT KENNEDY: DOT users

Distribution: KENNEDY, stone, mcnamara

Received at: 9-APR-74 10:26:00 3am

I spent a couple of hours this AM getting Dee and Jan (Metott and Smith) and some strange looking dude with a beard, Dave something, overviewed and oriented on the system, They left about 1230, with a concept of how the whole thing hangs together, how to login, and rudiments of creating, loading

Messages - Second Quarter 1974

writing, and editing a file. They both (3) seem to be well motivated and interested although puzzled. They seem sharp enough and I don't envision any 'blocking' problems. There do seem to be two things that require taking care of:

1. A new directory (one only) in the name of Fred DiMaggio, FDM.

2. A terminal, I gave Dave One that I thought was in good working order, it had been just worked over I thought. But it is sick. According to Norm Kirk, it is in the electronics. Without schematics and spare cards there is little they can do. Dave said that he can get it to TI in Waltham with no trouble. Question, is this the way to do it? Is the warranty still in effect? If so are there others that would benefit from a ride in the nice white spring snow?? RSVP

3am1

8-APR-74 1716=PDT FEEDBACK: System down on fri nite  
(5apr1917edt)

Distribution: KENNEDY, stone, norton, feedback  
Received at: 8-APR-74 17:16:13

3an

Ed, If the time is correct, I don't know why it goes down at 7pm your time. At about 3PM our time every Fri we bring a new Exec with all the improvements, etc., that have been tested during the week at ARC. If the time is correct (I'll wait for confirmation from you) does it come back up? Is there any announcement that it's going down? Jim Bair

3am1

8-APR-74 1254=PDT PANARA: AKW & Comm Users

Distribution: KENNEDY, mcnamara, stone, cavano, laforge  
Received at: 8-APR-74 12:54:36

3ao

I guess I wasn't clear about one point in the journal document to you. I assume that since all 6,2 new starts are to be reviewed by Dr Gabe, Dr C and Lt Col Warloe, that we are in competition with all other Center submissions for whatever new start money is available and that the review will not just be a changing of priorities established by IS. (I understand that 55981 has no new start money for FY75.) The coordinated position of need for funds by more than one organization appears to me to

be a strong position and make it a little more difficult for the committee to turn down.

3ao1

8-APR-74 0703=PDT DECONDE: aapologies

Distribution: KENNEDY  
Received at: 8-APR-74 07:03:26

3ap

dear dr kennedy i must apologize for getting you into trouble with a, barnum

Messages - Second Quarter 1974

i told thim that i was the guilty party for sending that 2 nasty message, the next time, if there is a next time, i will send something ou , of that quality, under my own name. Now how can we get rid of thatmessage pwrmanently!please see me when you have a moment, loveagatha,

3ap1

5=APR=74 1743=PDT NORTON: Friday and The Office=1 system,  
Distribution: KENNEDY, norton  
Received at: 5=APR=74 17:43:15

3aq

Earlier messages to users have indicated tht new Monitors are brought up Fridays at 6:00 pm your time...when they ae brought up, not every Friday. We do this so that they can get some use by local users before beeing inflicted on the Office=1 users Monday ,,,so any bugs get seen and fixed. I have asked that from now on each time the system goes down users get a reason stated and a warning,,also an idea of how long the system will be down for this purpose. It iis usually about 15 minutes Frida , I think, Hope this makes it clear when and why we do this, Ed, Sorry that today's was abrupt, Jim Norton

3aq1

5=APR=74 1243=PDT BUCCIERO: aids to s/w/document  
Distribution: KENNEDY, bucciero, cavano, stone, iuorno,  
tomaini  
Received at: 5=APR=74 12:43:11

3ar

ED, JOHN MAC CHANGED THE FIRST SENTENCE A LITTLE; TO EXPLOIT AND FURTHER DEVELOP AN ADVANCED TEXT=PROCESSING SYSTEM (NLS) TO AID IN THE DEVELOPMENT OF BETTER PROCEDURES FOR SOFTWARE DEVELOPMENT AND DOCUMENTATION > the title is now down to 25 characters, the official title to task: AIDS TO SOFTWARE DOCUMENT/the JOB ORDER NUMBER ASSIGNED IS 55811501, you can probably start chergitime to by 1 may 1974,

3ar1

5=APR=74 1107=PDT LAFORGE: dan richards  
Distribution: KENNEDY, mcnamara  
Received at: 5=APR=74 11:07:15

3as

there has been a continuing requirement for a long time to provide richards with both talking paper data and staff summary reports for submission to afsc, have i been inadvertently working out side the system?

3as1

5=APR=74 0709=PDT STONE: OSD Use of NLS  
Distribution: KENNEDY, barnum, tomaini, mcnamara  
Received at: 5=APR=74 07:09:49

3at

Received the following message from Dave Russell of ARPA, Just

Messages - Second Quarter 1974

wanted to let the local management know that someone other than us "peons" are interested in using NLS,

3at1

5=APR=74 0636=PDT RUSSELL at USC=ISI: DEO USE OF NLS  
Original distribution: STONE, WILLIS, FRYKLUND, BLACK,  
ROMNEY, RUSSELL, PERRY, BLUE,, LICKLIDER  
Received at: 5=APR=74 06:36:24

PART I FOR ALL

WALT CHRISTENSEN OF THE DIRECTOR OF ENERGY'S OFFICE, OAS(I&L) HAS EXPRESSED AN INTEREST IN USING NLS AS A MEANS OF MAINTAINING AN ON-LINE FILE OF THE CONGRESSIONAL INQUIRIES RECEIVED BY THE DEO CONCERNING DEFENSE ENERGY PROBLEMS. BRIEFLY, HE WOULD LIKE TO MAINTAIN A FILE BY CONGRESSMAN/SENATOR, DATE, CONSTITUENT, AND SUBJECT. THE DEO RECEIVE 15-30 LETTERS A DAY AND IS CONCERNED THAT THEY MAINTAIN A CONSISTENT POSITION IN RESPONDING TO SUCCESSIVE CONGRESSIONAL QUERIES OR MULTIPLE CONSTITUENT LETTERS.

JIM NORTON OF SRI=ARC HAS DISCUSSED THE SCOPE OF THE PROPOSED PROGRAM WITH CHRISTENSEN AND CONCURS THAT THE PROPOSED WORK IS APPROPRIATE FOR NLS. THE VOLUME OF WORK IS ESTIMATED BY NORTON AT ABOUT HALF A SLOT, AT OFFICE=1.

I PROPOSE TO OFFER CHRISTENSEN THE OPPORTUNITY TO PURCHASE A HALF SLOT EQUIVALENT OF OFFICE=1 NLS SERVICE IN FY75 AT AN ESTIMATED ANNUAL COST OF \$20K. THE MECHANISM FOR ACCOMPLISHING THIS WOULD BE A TRANSFER OF FUNDS BY OSD TO THE FY75 SRI=ARC CONTRACT AT RADC. ARC SUPPORT WOULD INCLUDE NECESSARY TRAINING OF PERSONNEL IN THE USE OF NLS. FOR THE BALANCE OF FY74, I WOULD PROPOSE TO OFFER CHRISTENSEN USE OF A PORTION OF THE ENERGY PROGRAM SLOTS AT OFFICE=1 TO BEGIN TRAINING AND PRELIMINARY FILE DEVELOPMENT. THE NECESSARY TERMINALS REQUIRED TO ACCESS THE ARPANET TO SUPPORT TELETYPE NLS ARE INSTALLED IN THE DEO.

PART II. FOR WILLIS, FRYKLUND AND LICKLIDER,  
REQUEST CONCURRENCE TO PROCEED WITH THIS TRANSFER OF

3at2

THE USE OF NLS TECHNOLOGY TO OSD.

PART III. FOR WILLIS  
REQUEST SUCH DIRECTOR/DEPUTY DIRECTOR LEVEL APPROVAL AS YOU THINK IS APPROPRIATE TO AUTHORIZE THIS USE OF THE ARPANET AND NLS BY OSD.

DAVE RUSSELL

3at3

5=APR=74 0504=PDT CARRIER: PSO

Distribution: KENNEDY  
 Received at: 5=APR=74 05:04:50

3au

Ed, glad to get some info for you,,,just a couple of things to say,,,if you move Becky in with me & Tom,,,Tom will have a fit and so will me!There is not room for three of us in that office,,,unless you plan on moving me out,,,which I don't think would be such a good idea,,,you're taking me away from him part of the time as it is and the LEAST you can do is leave a "nice warm body" for him,,,We have enough problems with Becky as it is and it sure as hell would cause more if that is what you do ,Bobbie

3aui

4=APR=74 1240=PDT CARRIER: link in Tickler  
 Distribution: KENNEDY  
 Received at: 4=APR=74 12:40:49

3av

Well, you could say it is half way intelligent but it depends on how intelligent the person who is reading it,,,ok,,,I will do as you say and maybe when I get a chance, I'll do it myself,,,by the way, what is the newest on establishing the PSO - when, where,,,and what are the reactions? Never get any feedback from you guys,,,you train Tom well, booby (did you notice?)

3avi

4=APR=74 1235=PDT CARRIER: 2001  
 Distribution: KENNEDY  
 Received at: 4=APR=74 12:35:52

3aw

Just a wild guess as for password - is it 2001,,,if is or if not, then what the hell does 2001 stand for?

3awi

4=APR=74 1119=PDT MCNAMARA: strike  
 Distribution: KENNEDY  
 received at: 4=APR=74 11:19:21

3ax

I not only worry about the directories but terminals and training,Lou Comito is preparing a plan on therinals,He asked me for our plan,I said we had one but as yet I have not dug it up,Can you assign someone to dig it up and update it ?I think it is important since Lou is the kind of guy who will go with us or without us as the case may be

3axi

4=APR=74 1042=PDT OPER: ARCH REQS  
 Distribution: KENNEDY  
 Received at: 4=APR=74 10:42:51

3ay

THE FILES YOU REQUESTED <KJOURNAL>19546, <IJOURNAL>20605 AND <LJOURNAL>19855 HAVE BEEN RECOVERED AND ARE NOW BACK ON LINE,

Messages - Second Quarter 1974

THANK  
BOB MARTINEZ  
TYM/OFFICE=1

3ay1

4=APR=74 1041=PDT OPER: ARCH REGS  
Distribution: KENNEDY  
Received at: 4=APR=74 10:41:10

3az

THE FILES YOU HAVE REQUESTED

3az1

4=APR=74 1025=PDT MCNAMARA: strike  
Distribution: KENNEDY  
Received at: 4=APR=74 10:25:05

3b@

A barnum is going to start putting the staff notes in hard copy, I suggested that if the branches are up with the terminals it would be really neat, He agreed, Lets go

3b@1

4=APR=74 0948=PDT BUCCIERO: manpower authorization change request  
Distribution: KENNEDY, bucciero, carrier, mcnamara, iuorno  
Received at: 4=APR=74 09:48:13

3ba

we are being assigned a new military, name; ruppel, capt, I don't know when he is coming in (being assigned) but booby will put radc form 5 in to pick him up, we are getting the space from isc/maj ingstrom, capt, ruppel will be assigned to isis/d, nelson, his aafsc will be 5125b, title is computer system design engineer, bobby see me when your ready to put in the paperwork

3ba1

4=APR=74 0748=PDT OPER: ARCH REGS  
Distribution: KENNEDY  
Received at: 4=APR=74 07:48:15

3bb

IN CASE YOU HAVENT RECIEVED NOTIFICATION PREVIOUSLY FILES <IJOURNAL>20636,NLS;1,20365,NLS;1 HAVE BEEN RECOVERED AND ARE BACK ON LINE, THE THREE OTHER JOURNAL FILES WILL BE AVAILABLE SHORTLY,  
THANK YOU  
BOBM  
TYM/OFFICE=1

3bb1

4=APR=74 0717=PDT CARRIER: Link Item for Lab Activities Report  
Distribution: KENNEDY, cavano  
Received at: 4=APR=74 07:17:24

3bc

Ed, I checked out the link item in regards to the above subject,, whoever typed it, did a lousy job,, there are quite a few typos, words that should be capitalized are not and vice

Messages - Second Quarter 1974

versa,,,I have a corrected marked up copy for you if you should want to look at it,,,I personally think it should be corrected,,,so for the time being, I am not going to put the link in the tickler until I hear from you,,,I know what you're thinking,,,what a pain I am, right???

4-APR=74 0634=PDT STONE(DLS) at OFFICE=1: Structured Programming and NLS  
Distribution: JPC(CAVANO), JLM(MCNAMARA), EJK(KENNEDY)  
Received at: 4-APR=74 06:35:00

ELF@ PANARAE

I have read the Judy Clapp draft proposal, Comments follow:

"Nice" statement of purpose, goals, objectives, approach, background and related efforts,,,12 pages

Frequent references to NLS and a quote from Knuth,

The how part (2 pages) is essentially devoid of content, It reiterates the "scientific" method:

Enumerate requirements

design first guess sytem

build prototype

use and evaluate it

design second guess system

There was no explicit recognition of 3rd, 4th, etc systems,

The primary use of this document would be to extract keywords, phrases and quotes, We should see if Nelson has any of the reports referenced,

If MITRE is to be allowed to do any of the work under this effort, they should be limited to item 1 above (requirements),

4-APR=74 0518=PDT CARRIER; FY=75 NEW STARTS  
Distribution: KENNEDY, Tomaini, Carrier, Bucciero, McNamara, LaForge, Stone, Panara, Cavano, Iuorno, Calicchia, Liuzzi, VanAlstine, Rzepka, LaMonica, Bergstrom, Lombardo, Daughtry,



Messages - Second Quarter 1974

Wingfield, Cafarelli

Received at: 4=APR=74 05:18:41

3be

THIS IS TO REMIND YOU THAT YOU MUST SUBMIT FY=75 NEW STARTS BY  
11  
APRIL 1974 TO ISI/TOM BUCCIERO (FORM 77s)

3be1

3=APR=74 1419=PDT KENNEDY: streaking around the system

Distribution: DECONDE

Received at: 3=APR=74 14:19:42

3bf

You are doing very well kiddo, Keep up the good work and be  
sure to give arb his messages and journal mail, One point  
though, you scare the hell out of people when you show them a  
roll of paper big enough to choke a boa constrictor, If you  
want I will help you to weed out the wheat from the chaff,  
Some of the stuff being sent to him is important, and there  
will be more, Must go now must go and streeeeeeeeeeaaaakkkkkk,  
Boy, if you could only see me, You'd give one big  
shriiiiiieeeeeeeekkkkk  
!!!!!!!!!!!!

3bf1

3=APR=74 0929=PDT STONE(DLS) at OFFICE=1: Additional  
Directories for RADC (also coming as journal  
item)

Distribution: JCN(NORTONSRI=ARC), JHB(BAIRSRI=ARC)

Received at: 3=APR=74 09:30:34

3bg

notron@SRI=ARC bair@SRI=ARC EJK(KENNEDY@)

3bg1

JCN---I have been "asked" by Frank Tomaini to create  
additional directories, First priority is the WNMCCS  
support people, since this effort is assuming greater  
importance everyday within the Division, The second  
category of directories is Branch chiefs, The main traffic  
here is anticipated to be messages, and perhaps some  
occasional use by the branch administrators to collaborate  
on funds, procurements etc, The third category is the  
other section chief under Tomaini, Dick Nelson,,,we will  
not attempt to bring up the rest of his section for some  
time,,,at least until the new command language is  
firm,,,maybe not even then if system load remains the way  
it is, The last category is the Communication  
division,,,only one person for the time being,,,we are  
pushing them to buy a slot, but need to whet their appetite  
first,,,they have purchased three terminals, but understand  
that use of the system will be limited during normal  
working hours, This effort evolved out of mutual interests  
between the SADPR group and its predecessor, the Base Comm

Study, Kenyon is a good man and could be a candidate architect if they become serious, 3bg2

Would you please create directories and ident entries for the following individuals, (they should also be added to the RADC group ident list): 3bg3

Additional WWMCCS support people 3bg4

Murry L Kesselman 3bg5

Computer Architect Section (ISCA)  
Rome Air Development Center  
Griffiss AFB, NY 13441 3bg6

Phone: 315 330-3461 3bg7

John B McLean 3bg8

Software Sciences Section (ISIS)  
Rome Air Development Center  
Griffiss AFB, NY 13441 3bg9

Phone: 315 330-7010 3bg10

Additional Branch Chiefs 3bg11

Daniel R Loreto 3bg12

Computer Technology Branch (ISC)  
Rome Air Development Center  
Griffiss AFB, NY 13441 3bg13

Phone: 315 330-2014 3bg14

William F Stinson 3bg15

Performance Evaluaton Branch (ISF)  
Rome Air Development Center  
Griffiss AFB, NY 13441 3bg16

Phone: 315 330-7009 3bg17

Additional Section Chief 3bg18

Richard Nelson,,,(no middle initial) 3bg19

Software Sciences Section (ISIS)

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Rome Air Development Center  
Griffiss AFB, NY 13441

3bg20

Phone: 315 330=3851

3bg21

Comm Division

3bg22

Robert J Kenyon

3bg23

Transmission Branch (DCC)  
Rome Air Development Center  
Griffiss AFB, NY 13441

3bg24

Phone: 315 330=3041

3bg25

Would you please create a group ident called WWMCCS to include the following RADC individual idents:

3bg26

rfi, arb, fjt, jlm, jpc, tfl, ral, dld2, dfb, maw,  
wer, fsl and Messrs Kesselman and McLean above.

3bg27

3=APR=74 0845=PDT BUCCIERO: reply to notes on 2 april meeting  
Distribution: KENNEDY, mcnamara, tomaini, stone, iuorno  
Received at: 3=APR=74 08:45:28

3bh

geo, heilmeyer briefing: 14-15 may 1974, this briefing will probably be on line item efforts for fy=75, so far DO has not giben out any more inf

3bh1

ed & mac: to establish a job order number: (1) nedd title not to exceed 25 characters; (2), requires a write-up to consist of (a) approach, (b), ojective, (c), estimated man=hours to be expende, (d) start date, (e) and completion date,

3bh2

in regards to establish personnel service organization (ps), if you want to assign R, CARRIER, thats ok, BUT will this be full time, what will this do as far as her taking care of the administrative duties assigned to the branch office,?????

3bh3

USE OF TYCOMS\*\* at one time the machines were scheduled to go to marcelle, bcky, and carmella, because of this i submitted af form 1070 local service communications request to move telephones from rooms 34/36, 51/53 to rooms 45,47 and 107 because they wre getting little use at that time,

3bh4

is carmella to be included in this plan,, do you want these phones moved or not???? please advise

3bh5

3=APR=74 0709=PDT OPER: DELETED FILES

Messages - Second Quarter 1974

Distribution: KENNEDY, FEEDBACK  
 Received at: 3=APR=74 07:09:41

3b1

TO REITERATE THE MESSAGE FROM JIM BAIR, I CAN ADD THAT ON  
 BI=WEEKLY  
 INTERVALS WE PERFORM A TRIM ON EXTRA FILE VERSIONS KEEPING ONLY  
 TWO  
 VERSIONS, ALL FILES INVOLVED ARE KEPT ON TAPE STORAGE AND WE'D  
 BE  
 HAPPY TO RECOVER ANY AND ALL DESIRED FILES ON A PER REQUEST  
 BASIS,  
 THANX  
 BOBM

3b11

3=APR=74 0555=PDT CARRIER: Branch Chief's Meeting held 2 Apr 74  
 = Staff Notes (J, McNamra)  
 Distribution: KENNEDY, Tomaini, Carrier, Bucciero, McNamara,  
 LaForge, Stone, Panara, Cavano, Iuorno, Calicchia, Liuzzi,  
 VanAlstine, Rzepka, LaMonica, Bergstrom, Lombardo, Daughtry,  
 Wingfield, Cafarelli  
 Received at: 3=APR=74 05:55:35

3bj

1. Heilmer to be here 14 & 15 May to review the 6,2 program.  
 2. Be on time, Front office quite concerned on late arrivals,  
 early departures, long lunch periods. 3. Section chiefs to  
 insure officer haircuts are standard. 4. NOTE TO  
 SECRETARIES...Col Thayer's name from now on to be on OERs and  
 only those reports requiring signature of a senior officer.  
 Use Al Barnum's signature block unless he's on leave or TDY.

3bj1

3=APR=74 0543=PDT IUORNO: vanalstine as an 110 prog  
 Distribution: KENNEDY, mcnamara  
 Received at: 3=APR=74 05:43:24

3bk

donny is our only cobol capability, i disagree with his  
 involment wit l-10, with his workload in the mis area(ids) and  
 wwmccs(Gcos, cobol, dms) and in the rac system araea, there is no  
 room for another job, i plann to send don to gcos  
 school(miss) later part of june.

3bk1

2=APR=74 1805=PDT FEEDBACK: Unvoluntary delete (bair2apr1524)  
 Distribution: KENNEDY, oper, feedback  
 Received at: 2=APR=74 18:05:46

3b1

Ed, We have no way of finding out what happened unless you send  
 us (feedback) a copy of the entire activity at the terminal  
 that logon session. We have never had that problem before, and  
 although that may sound like a cop out, its more relevant here  
 because we must see the problem happen to understand wha it

Messages - Second Quarter 1974

is...be able to duplicate it. We certainly do not want anyone's files deleted against their will. My only guess is that you accidentally hit the del, or the file was not read for 21 day and was archived. If any files DO disappear, let us know and we can restore it from tape dump. Ciao, Jim

3b11

1=APR=74 1034=PDT CAVANO: training course  
Distribution: KENNEDY  
Received at: 1=APR=74 10:34:38

3bm

I have passed the first part of my training course.

3bmi

MIKE 23-JUL-74 14:53 30940

ARC as an exporter of electronics equipment....copy of message to  
MEH, LHD

(J30940) 23-JUL-74 14:53; Title: Author(s): Michael T. Bedford/MIKE;  
Distribution: /MIKE; sub=Collections: NIC; Clerk: MIKE;

ARC as an exporter of electronics equipment..., copy of message to  
MEH, LHD

It suddenly dawned on us that ARC will be acting as an exporter of communications hardware when you sell us the lineprocessor. As such it's necessary for you to fill out Canadian Government Form M.A. As an exporter of goods into Canada, it is assumed that you already have a box full of these forms, and will whip up our five (5) copies along with the invoice.

In the event that you have run out of Canadian Government Forms M.A., I could arrange to mail five (5) out to you. Apparently they have to be signed by one of your people acting in an "official capacity". (I'm not certain, but I think my official capacity is about three six-packs.)

In any case, the forms don't ask for anymore information than you'd find in a detailed invoice. I think what they really amount to is a testimony on your behalf as to the fair market value of the goods in question.

I'd like to send out the forms to you by mail, so that you could fill them out in advance, and check out any hurdles. Apparently things would be very awkward, if not impossible, if I showed up here at Canadian Customs without the forms.  
Should I mail the forms to you ?

::

1

MIKE 23-JUL-74 14:55 30941

(J30941) 23-JUL-74 14:55; Title: Author(s): Michael T.  
Bedford/MIKE; Distribution: /MIKE; Sub=Collections: NIC; Clerk: MIKE;



just a test for mike

1

RJC 24=JUL=74 07:16 30942

tickler

(J30942) 24=JUL=74 07:16; Title: Author(s): Roberta J. Carrier/RJC;  
Distribution: /RADC; Sub-Collections: NIC RADC; Clerk: RJC;

tickler

(juth4) 25 July = Thursday 1

0830 hrs, = Branch Chief's Meeting 1a

1600 hrs, Officer's Commanders Call at Club 1b

Laboratory Activity Reports due today: Bucciero must have them by 1000, ISM must have them by 1100, and DOT must have them by 1600, (KJOURNAL, 19513,1:w) 1c

Due Date = ISI = System Safety 1d

Due Date = ISI = System Safety 1e

(juf4) 26 July = Friday 2

Subject: RADC Executive Development Program Personnel interested submit info to Division office by today, Orientation on the program scheduled on 19 Jul at 0930 hrs, and on 23 Jul 1330 hrs., in auditorium 106, 2a

Bloodmobile = Bldg 14 = 2b

(jum5) 29 July = Monday 3

Due Date = Information for FY-74 RADC History = Key Man responsible is Ed LaForge, 3a

Due Date = ISI = Bicycle Rack Survey 3b

(jut5) 30 July = Tuesday 4

1300 hrs, Branch Chiefs Meeting 4a

(juw5) 31 July = Wednesday 5

ALL PERSONNEL; The annual filing of supplementary DD Forms 1555 must be accomplished by 31 Jul 74, with information current as of 30 Jun 74. Due to the 30th falling on Sunday this year, time is extended to 1 Jul 74. This requirement pertains basically to civilian personnel classified at GS-13 or above, 5a

(auth1) 1 August = Thursday 6

Branch Chief's Meeting = 0830 hrs, 6a

Due Date = ISIS/ISIM Subject Course #475 = Laboratory Management of R & D (Officers only) Due in ISI today, 6b

tickler

Form 2's (employee time expenditures) are due today,	6c
News Brief items due into Becky Today,(KJOURNAL, 19533, 1;w)	6d
Bobbie: Personnel Strength Rpt, due,	6e
Laboratory Activity Reports due today: Bucciero must have them by 1000, ISM must have them by 1100, and DOT must have them by 1600,(KJOURNAL, 19513,1;w)	6f
(auf1) 2 August - Friday	7
Timecards due today	7a
TPO Briefing	7b
(aum2) 5 August - Monday	8
IS Scheduled for Management Assessment Review Briefings - Areas are: Associative Processor, Augmentation Research Center, Software Reliability, Language Controls and MPC=Microform System,	8a
IR Division PAR Briefings - Briefings are held at 8:30 am, Bldg 240, Conference Room A, - High Resolution Camera, M, Manor - Intel Production Sys preliminary, W, Doig - Special Color Application for S&T Intel, P, Smith	8b

ESD TWX

(J30943) 24-JUL-74 07:25; Title: Author(s); Roberta J, Carrier/RJC;  
Distribution: /RBP RJC; Sub=Collections: NIC; Clerk: RJC;

ESD TWX

See Dave Craig in regards to ESD TWX as soon as possible, See Bobbie if you would like more info, (VERY IMPORTANT)

1

EJK 24=JUL=74 10:37 30944

Output Processor Directive Problem

(J30944) 24=JUL=74 10:37; Title: Author(s): Edmund J. Kennedy/EJK;  
Distribution: /NDM DLS(info) RJC(info) JLM(Info); Sub=Collections: RADC;  
Clerk: EJK;

## Output Processor Directive Problem

starting with a file that resembles the one below:

## SUMMATION

XXX XXX XXX

6,2	123	0	678	0
-----	-----	---	-----	---

6,3	0	456	0	789
-----	---	-----	---	-----

XXX XXX XXX

6,2	0	0	456	0
-----	---	---	-----	---

6,3	0	123	0	678
-----	---	-----	---	-----

XXX XXX XXX

6,2	0	0	123	0
-----	---	---	-----	---

6,3	0	0	0	0
-----	---	---	---	---

XXX XXX XXX

6,2	123	456	0	0
-----	-----	-----	---	---

6,3	0	0	0	456
-----	---	---	---	-----

XXX XXX XXX

6,2	0	0	0	0
-----	---	---	---	---

6,3	789	0	678	0
-----	-----	---	-----	---

XXX XXX XXX

6,2	0	678	123	0
-----	---	-----	-----	---

6,3	0	0	0	678
-----	---	---	---	-----

TOTAL

6,2	333	666	999	1111
-----	-----	-----	-----	------

6,3	666	999	1111	2222
-----	-----	-----	------	------

I wanted to use the output processor directives that would give me a resultant printout that looks like the following:

1

1a

1a1

1a1a

1a1b

1a2

1a2a

1a2b

1a3

1a3a

1a3b

1a4

1a4a

1a4b

1a5

1a5a

1a5b

1a6

1a6a

1a6b

1a7

1a7a

1a7b

2



## Output Processor Directive Problem

## SUMMATION

XXX XXX XXX

6,2	123	0	678	0
6,3	0	456	0	789

XXX XXX XXX

6,2	0	0	456	0
6,3	0	123	0	678

XXX XXX XXX

6,2	0	0	123	0
6,3	0	0	0	0

XXX XXX XXX

6,2	123	456	0	0
6,3	0	0	0	456

XXX XXX XXX

6,2	0	0	0	0
6,3	789	0	678	0

2a

2a1

2a1a

2a1b

2a1c

2a1d

2a2

2a2a

2a2b

2a2c

2a2d

2a3

2a3a

2a3b

2a3c

2a3d

2a4

2a4a

2a4b

2a4c

2a4d

2a5

2a5a

2a5b

2a5c

## Output Processor Directive Problem

XXX XXX XXX

6,2	0	678	123	0
6,3	0	0	0	678

TOTAL

6,2	333	666	999	1111
6,3	666	999	1111	2222

With the advice and consent of one puane L Stone, I used the following directives which I put after the word SUMMATION:

,pxFYD; ,pxFYU;

To our mutual surprise and chagrin we got the following result:

SUMMATION

XXX XXX XXX

6,2	123	0	678	0
6,3	0	456	0	789

XXX XXX XXX

## Output Processor Directive Problem

						4a3a
6,2	123	0	678	0		4a3b
						4a3c
6,3	0	123	0	678		4a3d
						4a3e
XXX XXX XXX						4a4
						4a4a
6,2	0	0	123	0		4a4b
						4a4c
6,3	0	0	0	0		4a4d
						4a4e
XXX XXX XXX						4a5
						4a5a
6,2	123	456	0	0		4a5b
						4a5c
6,3	0	0	0	456		4a5d
						4a5e
XXX XXX XXX						4a6
						4a6a
6,2	0	0	0	0		4a6b

## Output Processor Directive Problem

						4a6c
6,3	789	0	678	0		4a6d
						4a6e

XXX XXX XXX

						4a7
						4a7a
6,2	0	678	123	0		4a7b
						4a7c
6,3	0	0	0	678		4a7d
						4a7e

TOTAL

						4a8
						4a8a
6,2	333	666	999	1111		4a8b
						4a8c
6,3	666	999	1111	2222		4a8d

Further experimentation gave us the identical result with EITHER the PxFYD OR the PxFYU used in conjunction with the PxFShow directive,

What did we/the system do wrong???

This is more of a puzzle to us than a heart=stopping incident = still if the directives, the system and we do not work together then,,,

Ed

RJC 25=JUL=74 06:48 30945

Demonstration

(J30945) 25=JUL=74 06:48; Title; Author(s); Roberta J, Carrier/RJC;  
Distribution: /RADC; Sub=Collections; NIC RADC; Clerk: RJC;

RJC 25-JUL-74 06:48 30945

Demonstration

...DONNA

## Demonstration

On 30 July 1974 at 0930 in the Display Facility, Bldg 3, there will be a demonstration of teletype Corporation's model 40 data terminal systems which consist of a display - 24 x 80 and high speed impact printer up to 314 lines per minutes. For further information on the demonstration of the model 40 system, contact Frank Triolo X2242.

1

RJC 25-JUL-74 06:50 30946

Farewell Luncheon

(J30946) 25-JUL-74 06:50; Title: Author(s): Roberta J. Carrier/RJC;  
Distribution: /RADC; Sub-Collections: NIC RADC; Clerk: RJC;



RJC 25=JUL=74 06:50 30946

Farewell Luncheon

....DONNA

Farewell Luncheon

Farewell luncheon for Major William Patterson on August 1 - Coalyard  
Charlies - 12:00 noon - \$3.50 includes everything - contact Henry  
Power or Ceil Friedman

1

RJC 25=JUL=74 08:37 30947

Special Achievement Award - DiNitto & Nelson

(J30947) 25=JUL=74 08:37; Title: Author(s): Roberta J. Carrier/RJC;  
Distribution: /RJC FJT JLM; Sub=Collections: NIC; Clerk: RJC;  
Origin: <CARRIER>MONEY,NLS;1, 25=JUL=74 08:33 RJC ;

RJC 25-JUL-74 08:37 30947

Special Achievement Award - DiNitto & Nelson

...SHARON

## Special Achievement Award - DiNitto &amp; Nelson

In August 1972, Mr. Richard Nelson and Mr. Samuel DiNitto, because of their expertise in the Compiler area, were able to foresee that the Honeywell Information System (HIS) World Wide Military Command and Control System (WWMCCS) computers, specifically those at Commander-in-Chief North American Air Defense Command (CINCNORAD) and Commander-in-Chief Strategic Air Command (CINCSAC) might be seriously hampered by the non-availability of an acceptable operational JOVIAL Compiler, as WWMCCS must give full time support to about 300 JOVIAL programmers. The HIS JOVIAL Compiler for the WWMCCS was determined unsatisfactory by CINCNORAD and CINCSAC and the requirement for providing an operational compiler was deleted from the Honeywell Contract.

A Procurement directive (PMD R-P3040(1)/JOVIAL, dated 8 Jun 73) and funds in the amount of \$370,000 were issued reflecting the urgent need of Hq Strategic Air Command (SAC) for a JOVIAL Compiler by July 1974, because WWMCCS hardware would be installed by that date but could not become fully operational without a satisfactory JOVIAL Compiler. Similar problems were faced by North American Air Defense Command (NORAD) and, to a somewhat lesser extent, by other WWMCCS sites.

At that time RADC had under contract the development of a JOVIAL Compiler Implementation Tool, a research and development effort to prove that compilers could be more simply and effectively produced by the use of a automated compiler implementation tool.

It was Messrs. Nelson and DiNitto who analyzed and evaluated the

## Special Achievement Award - DiNitto &amp; Nelson

situation and convinced management to redirect the RADC effort by using the automated Compiler Implementation Tool to actually build a compiler of production quality for the WWMCCS computers. Their approach did not detract at all from the R&D goals, required only a small engineering change to the existing contract, and insured a usable back-up solution for a potential operational deficiency. Because the resulting JOVIAL Compiler was accepted with slight modification in March 1974 by SAC and NORAD, the resulting USAF savings, conservatively estimated at \$658,000 can be attributed to the awareness and alert thinking of Messrs. Nelson and DiNitto, 4  
The basis for the estimate of \$658,000 follows: 5

(a) First, the PMD R-P3040(1)/JOVIAL has been cancelled, thus saving the USAF \$370,000. 5a

(b) Second, SAC and NORAD have the RADC Compiler now (1 Jul 74) at least six to nine months before the PMD could have delivered a suitable replacement, because even though the PMD was intended to provide a compiler at that same date (1 Jul 74) it was determined during proposal evaluation that this was a physical impossibility. During this six to nine month period, SAC and NORAD would have had to "limp along" with the unsatisfactory HIS JOVIAL Compiler. It is estimated that, for SAC alone, the resulting savings is \$203,000. (See Footnote 1) Using the same criteria, a conservative estimate of savings for NORAD is \$85,000 or a total SAC/NORAD savings of \$288,000. 5b

FOOTNOTE 1: The following basis for the SAC savings compares the

## Special Achievement Award - DiNitto &amp; Nelson

RADC provided JOVIAL Compiler to the HIS JOVIAL Compiler for a six to nine month period: The RADC provided compiler increases computer throughput speed by more than 300%, with resultant code that will "run" 50% faster and require about 40% less "core." In CINCSAC at Offutt AFB, Omaha, Nebraska there are more than 100 JOVIAL programmers and two HIS 6080 Computers. One of the HIS 6080 Computers is dedicated to the mission. The second HIS 6080 Computer is primarily used as support and back-up. The support work, which is nearly 95% of its use, is for the development and debugging of the JOVIAL Source Code. Both computers are used 100% of the time available. A conservative estimate is that the RADC Compiler will increase SAC Programmer Productivity by at least 10% for the period. Assuming an average cost per programmer of \$10,000/yr, the savings as the result of increased programmer productivity is:  $(100)(7/12 \text{ yr}) \times (10,000) \times 10\% = \$58,000$ .

6

In addition, because the code, resulting from the RADC Compiler, executes more efficiently, it can be estimated that about 50% of HIS 6080 computing resources would be required during the period, if the resources were used exclusively for JOVIAL Source Code Computation or resulting machine code execution. For the support computer, this means the savings in hardware costs (Computer Time) =  $7/12 \times (50\%) \times \$500,000$  (See Footnote 2) = \$145,000. Since NORAD has 60 JOVIAL programmers and 50% of SAC's related Computer Resources (only one HIS 6080), NORAD savings are estimated to be 30% of SAC's with respect to

## Special Achievement Award - Dinitto &amp; Nelson

productivity and 50% of SAC's with respect to Computer Resources or =  
\$85,000.

FOOTNOTE 2: Depending on lease/purchase agreements reached, a HIS  
6080 cost can range from \$500,000 to \$1,000,000 per year. For the  
purposes of this justification, the conservative figure of \$500,000  
was selected.



elephantmeeting

(J30948) 26-JUL-74 10:22; Title; Author(s); Jean Iseli/JI;  
Distribution: /DVN JI; Sub-Collections: NIC; Clerk: JI;  
Origin: <HELP>CROFTONONE,NLS;1, 26-JUL-74 10:18 JI ;

elephantmeeting

contradictions have been alleged in our description of the elephant  
the review meeting will be at 3:00 in the project room,  
a recursive redefinition plan should emerge.

1  
2  
3

EJK 26=JUL=74 12:24 30949

Dimaggio directory

(J30949) 26=JUL=74 12:24; Title: Author(s): Edmund J. Kennedy/EJK;  
Distribution: /FEED EJK DLS; Sub=Collections: RADC; Clerk: EJK;

Dimaggio directory

JI 29=JUL=74 08:06 30950

Dromedary : (23686,)

(J30950) 29=JUL=74 08:06; Title: Author(s); Jean Iseli/JI;  
Distribution: /DVN; Sub=Collections: NIC; Clerk: JI;

JI 29-JUL-74 08:06 30950

Dromedary ; (23686,)

[INFO=ONLY]

Dromedary : (23686,)

Dirk: Thanks for getting the Journal Mail going for me, Pachaderms  
have always been happiest with Dromedaries,

1

(J30951) 29-JUL=74 14:09; Title; Author(s); Geoffrey S.  
Goodfellow/GSG; Distribution; /GSG; Sub-Collections: NIC; Clerk: GSG;



```

#connection,to harv=10 is complete,# 1
2
Harvard 5,06A=19 20:21:17 3
Type 'HELP' if you need it, 4
5
, 6
, tty no tab 7
8
,login 62,# 9
JOB 11 Harvard 5,06A=19 TTY25 10
Your name please (last name first): Croft,Bill 11
You are logged in as 62,404000 12
2021 15=Jul=74 Mon 13
,impcom 14
*status/self 15
IMP Logical Job Local=Skt State Byte Foreign=Host Foreign=Skt TTY 16
0" NETUSR: 11 1171400 OPEN 8 PARC=MAXC 30325000003 16a
25
*connect xxx1:/host:#244/local:1/remote:#400002 17
*connect xxx1:/host:#244/local:2/remote:#400003 18
*status/self 19
IMP Logical Job Local=Skt State Byte Foreign=Host Foreign=Skt TTY 20
0" NETUSR: 11 1171400 OPEN 8 PARC=MAXC 30325000003 20a
25
2 XXX1: 11 404000002 OPEN 8 ALOHA=TIP 400003 20b
2 XXX1: 11 404000001 OPEN 8 ALOHA=TIP 400002 20c

```

*telnet xxx1:/noecho/nolf	21
XXX1: reconnected to ALOHA=TIP (ALOHA)	22
Closed T	23
Closed R	24
	25
	26
*K	27
BCC 500 SYSTEM SY2,6/11/74	28
MON 15 JUL 1974 15:25:09	29
ENTER guest edgar	30
	31
@who-is-on	32
LINE NAME	33
4 GUEST	33a
11 L=KAM	33b
14 SMITH	33c
	34
@logout	35
LOGOUT ON: MON 15 JUL 1974 15:25:56	36
CONNECT TIME: 00:00:47	37
	38
"_	39
Back to HARV=10 job 11	40
*close/self	41
*~C	42

	43
,xjob	44
CONFIRM: d	45
Are you sure? y	46
Job 11, User [62,404000] Logged off TTY25 2027 15-Jul-74	47
Runtime 0 Min, 02,27 Sec	48
.	49
#disconnect 1	50
	51
Note:	52
(1) escape character back to harvard telnet is a control=shift=0	53
(^_ or 37 octal) if you're running from some tenex telnet's	53a
you will have to type: ^Z37<cr> to generate the ^_	53b
(2) BCC attention is ^K	54
(3) Okano says only to use after 6pm their time...	55
(4) junk gets echoed back while you are typing interspersed with the	56
echos; it is non-printable but visible under some circumstances;	56a
I dont know how to get rid of it	56b
(5) password 'edgar' does not echo	57
(6) if 40000x pair is busy try 100000x or 20000x	58
(7) try '^?<cr>' for initial help	59
	60
==b,c,	61
	62

(J30952) 29=JUL=74 18:33; Title: Author(s): Geoffrey S.  
Goodfellow/GSG; Distribution: /JEW; Sub=Collections: NIC; Clerk: GSG;

Jim==

The way I found out about ECOD is that I am going to be the  
Weekend coverage operator, and wanted to know what all the  
jobs were that ran under SYSJOB, and Jeff was able to explain to me  
all of them except ECOD, and later told me that it was some program  
that gathered network statistics, and if I wanted to know more about  
it I should send you a note, or something to that effect,

Also, just recently I have discovered that if one tries  
to submit a journal entry to your ftpsrv running at ARC,  
it goes in the a horrendous loop, and eats up about 7 or 8  
mins of cpu time per try, even though in the log file it only shows  
that it has taken a few milliseconds, and the job will be requeued  
though smaller and try again, and the same thing just starts up all  
over again. I dunno whether this is cuz all entries must go to  
the OFFICE=1 server or what, but though I'd let you know anyway,  
just in case. If it really is a bug, I can show you what  
I mean some evening when the system isn't loaded,

[Geoff]

(J30953) 29=JUL=74 18:38; Title: Author(s): Geoffrey S,  
Goodfellow/GSG; Distribution: /JAKE; Sub=Collections; NIC; Clerk: GSG;

GSG 29=JUL=74 18:38 30953

1

JI 30=JUL=74 07:48 30954

pachederms - 2 Wins ; Dromedaries - 1 Loss

(J30954) 30=JUL=74 07:48; Title: Author(s): Jean Iseli/JI;  
Distribution: /DVN; Sub=Collections: NIC; Clerk: JI;



JI 30=JUL=74 07:48 30954

Pachederms = 2 Wins ; Dromedaries = 1 Loss

[INFO=Only]

Pachederms = 2 Wins ; Dromedaries = 1 Loss

Dirk:

Hey, just discovered that I[<help> is sometimes used by others] sent you a note on Friday. It must have been someone trying out the Journal and they sent you the sample stuff in the manual,

Sorry for the confusion - I did find it delightful serendipity though,

Regards and best wishes, Jean

1

WELCOME TO NLS

(J30955) 30=JUL=74 10:00; Title: Author(s): Edmund J. Kennedy/EJK;  
Distribution: /FJT(for Becky) MDP DRL(for Dick) RN2(for Carm);  
Sub-Collections: RADC; Clerk: EJK;

## WELCOME TO NLS

Hello, welcome to your first lesson about NLS - the "ON Line System" developed by Douglas Engelbart and his staff at Stanford Research Institute, 1

I'll be describing some parts of this system to you, showing you how to use it, and giving you tasks to do which you can perform yourself, 2

NLS is a text processing system which is used as an aid in writing, re-organizing, indexing, publishing and disseminating information of all kinds, 3

There are two different versions of NLS; one for a terminal with a display screen (DNLS) and one for just a typewriter terminal (TNLS), TNLS is the version I will be describing, 4

NLS is a very large system made up of many subsystems. In what follows I will introduce only some of the file handling, text-editing, and simple printing commands which are used in the EDIT subsystem, 5

Outline for effort writeups

(J30956) 30-JUL-74 11:06; Title: Author(s): Edmund J. Kennedy/EJK;  
Distribution: /JLM DLS(info) RFI(info); Sub=Collections: RADC; Clerk:  
EJK;

## Outline for effort writeups

I don't know if Stoney managed to get one of his old effort writeups on-line or not. If he did I can't find which one it is. SO, rather than screw around for the rest of the week I dug up an old hard copy and I am reentering the outline for the use of the troops. Before that I think you should review it and let me know if you want to make any changes. My personal opinion is that the amount of effort expended in putting this into the system and maintaining it should be related to its value. Stoney can do things on the IMLAC very easily that other people will find extremely painful to do on the Execuports and TI's. If it is too much work, they won't keep it up and it becomes useless.

## OUTLINE:

	1
OUTLINE:	2
(TITLE)	2a
(ENGINEER)	2b
(OBJECTIVE)	2c
(REQUIREMENTS)	2d
(APPROACH)	2e
(EFFORT)	2f
(RELATIONSHIP)	2g
(MILESTONES)	2h
(MANNING)	2i
(DOLLARS)	2j
(STATUS)	2k
(SUMMARY)	2l

NCMT 30=JUL=74 18:17 30957

(J30957) 30=JUL=74 18:17; Title: Author(s); NET COMMENT/NCMT ;  
Distribution: / NCMT; Sub=Collections: NIC; Clerk: NCMT;

Date: 30-JUL-74 18:17:18 1  
From: Bob M. Metcalfe 2  
Subject: What's up with ARPANEWS? 3  
type of comment: Suggestion or unknown 4  
Network online address: parc=maxc <metcalfe> 5  
Phone: 415-493-1600 6  
Degree of urgency: Low priority 7  
Type of response desired: Response is requested 8  
9  
Text: 10  
What has become of the ARPANEWS program? 11

12  
13



ARCG 31-JUL=74 19:43 30958

(J30958) 31-JUL=74 19:43; Title: Author(s): Guest O, ARC/ARCG;  
Distribution: /GSG; Sub=Collections: SRI=ARC; Clerk: ARCG;

THIS IS A DEMO TRY TO DEMONSTRATE HOW THE JOURNAL SYSTEM WORKS 1  
FROM THE NETWORK, AND HOW THIS WILL APPEAR IN MY INITIAL FILE 2  
ON ARC WHEN BACKGROUND BELIEVES IT THERE,.. 3

Content Analyzer: If a statement passes, pass that whole branch.

(J30959) 1-AUG-74 12:10; Title: Author(s): N, Dean Meyer/NDM;  
Distribution: /EJK IMM([INFO ONLY]) SRI=ARC([INFO ONLY]);  
Sub=Collections: SRI=ARC; Clerk: NDM;  
Origin: <MEYER>BRPASS,NLS;1, 1-AUG-74 12:06 NDM ;

Content Analyzer: If a Statement passes, pass that whole branch,

Substitute a content analyzer pattern in for `%%pattern%%`, then compile and institute as content analyzer,

Content Analyzer: If a Statement passes, pass that whole branch,

```

PROGRAM brpass                                     1
  DECLARE level, ret ;                             1a
  (brpass) PROCEDURE (sw) ;                         1b
    REF sw ;                                        1b1
    IF sw,swcall %first time around% THEN level = ret = 0 ; 1b2
    IF ret %last passed% AND sw,swclvl>level %this within branch% 1b3
      THEN RETURN(TRUE) ;                          1b3a
    level = sw,swclvl ;                             1b4
    RETURN (ret = (FIND %%%pattern%% ) ) ;         1b5
  END,                                              1b6
FINISH                                             1c
  
```

Area Codes

(J30960) 1=AUG=74 12:27; Title: Author(s): Rudy L. Ruggles/RLR;  
Distribution: /JHB RLR; Sub=Collections: NIC; Clerk: RLR;

## Area Codes

In order that we can save a few dollars, could you give me some TIP phone numbers other than the one at Rutgers for my TI 725? In particular, are there any TIPS in area code numbers 203 (Conn,) or 202 (Wash., D>C>D.C.)? I live in Conn, and the Institute has a tie line To Washington,(This is my fifirst attempt to send a message, so wish me luck!!)

1

ACD 1=AUG=74 13:05 30961

test message

(J30961) 1=AUG=74 13:05; Title: Author(s): Agatha C. Deconde/ACD;  
Distribution: /EJK ACD; Sub=Collections: NIC; Clerk: ACD;



test message

ACD 1-AUG-74 13:05 30961

1

(J30965) 5-AUG-74 06:57; Title: Author(s): Roberta J. Carrier/RJC;  
Distribution: /FJT TJB RJC JLM RFI EJK ELF DLS RBP JPC RAL WER FSL DFB  
MAW FPS; Sub=Collections: NIC; Clerk: RJC;

● Sharon

From now on, all work will be done in Bobbie's directory and later (when the work is completed), be transferred into your directories. This is upon the request of Roger Panara.

1

TIP phone numbers

(J30966) 5=AUG=74 11:37; Title: Author(s): Rudy L. Ruggles/RLR;  
Distribution: /CF RLR; Sub=Collections; NIC; Clerk: RLR;

## TIP phone numbers

At the moment we are using the Rutgers TIP in conjunction with a TI 725 portable terminal kindly loaned to us by the SRI/ARC group. This requires a long distance call each time we wish to use the TENEX/NLS system. Could you possibly give me other TIP dial-up numbers in the following area codes: 202 (we have a direct line to Washington, D.C., from Hudson Institute), and 203 (I live in Ridgefield, Conn. and will be using the terminal at home on occasion. We, of course, can continue to dial up the Rutgers TIP, but having the other numbers would save us a few dollars in the long run. Best, Rudy

1

Answer to your question on my branch=passing content analyzer filter,

(J30967) 5=AUG=74 11:48; Title: Author(s): N, Dean Meyer/NDM;  
Distribution: /KIRK; Sub=Collections: SRI=ARC; Clerk: NDM;

Answer to your question on my branch-passing content analyzer filter.

Kirk: Of course this is all in fun, right? You do realize the difference between viewspecs and content analyzer filters, right? Like quickprint, Copy Filtered, TNLS,.,.



Answer to your question on my branch=passing content analyzer filter,

It can show you more than one branch,

1

## Hudson Institute Equipment Status

(J30968) 5=AUG=74 11:48; Title: Author(s): Rudy L. Ruggles/RLR;  
Distribution: /JHB MEH; Sub=Collections: NIC; Clerk: RLR;  
Origin: <RUGGLES>HIPOINTSEQUIPSTATUS,NLS;3, 5=AUG=74 09:43 RLR ;

## Hudson Institute Equipment Status

I. Communications Line 1

Contact at AT&T; Thomas Huggans, (914) 345-2980 1a

Installation Foreman; Mr. Young 1a1

Line specification 1b

One 3002 grade line, 4 wire, full duplexed, non-conditioned 1b1

From: Hudson Institute 1b1a

To: Rutgers University 1b1b

Dept, of Computer Science 1b1c

Hill Center 1b1d

Busch Campus 1b1e

New Brunswick, N.J. 1b1f

Contacts: 1b1f1

Facility: Saul Levy (201) 932-2020 1b1f1a

Communications: Tom Webb (201) 932-2461 1b1f1b

SEE ALSO; MODEMS, III below 1b2

SEE ALSO; Rutgers TIP, VIII below 1b3

Current status ( 3=AUG=74 09: 49): Mr. Huggans has been contacted by me and said that he would have Mr. Young, the Installation Foreman, call me to make final arrangements for line installation and job completion date, I gave both line and MODEM specs, to Mr. Huggans, 1b4

II. Modems 2

Equipment Specs,; 2a

Need two AT&T Model 208A Modems, one at Hudson Institute and one at the Rutgers TIP, 2a1

Must have options described on page 22 of the ARC Spec, report, 2a2

Current Status( 3=AUG=74 10:36); Specs, defined to Mr. Huggans at

## Hudson Institute Equipment Status

AT&T, but final written confirmation not yet in hand, (See I., above)

2b

## III. Rutgers TIP

3

Relationship: Rutgers will be the location of the TIP to which the Hudson leased 4800 baud line will connect

3a

## Facility contact:

3b

saul Levy (201) 932-2020

3b1

## Communications contact:

3c

Tom Webb (201) 932-2461

3c1

## Special Requirements:

3d

interface card for Hudson leased line from BBN

3d1

DEX interface card for cassette use.

3d2

## Current Status ( 3-AUG-74 12:07 ):

3e

According to Bair on 1 August both interface cards are in place at Rutgers,

3e1

## IV. Texas Instruments Terminals

4

## Equipment Specs.:

4a

One TI 733KSR with options as specified in the ARC document

4a1

Two TI 735 portable terminals

4a2

## Current Status( 3-AUG-74 11:09 ):

4b

We have one TI 725 portable terminal on loan from Norton at SRI/ARC,

4b1

I have signed the contract with TI ordering the above equipment on 23 July. However, I have not gotten written confirmation or estimated delivery date from TI,

4b2

## V. Acoustic Coupler

5

Purpose: This coupler will be used as an interface between the TI 733KSR plus cassette recorder and the voice-grade dial-up line to the TIPS,

5a

## Hudson Institute Equipment Status

Equipment: Anderson-Jacobson Model A242 (300baud) 5b

Price: \$345 purchase, \$20/month lease, 5b1

Contact: Mr. Radow (212) 244-0307 5b2

Current Status ( 3=AUG=74 10:55 ):Contract received, signed by me and returned on 29 July, Delivery date unknown but probably in about two weeks, 5c

VI, Cassette Unit 6

Purpose: This unit will allow text to be recorded and corrected in connection with the TI 733KSR or a TI 735, while off line (i.e., while not connected to the computer. After such information is thus recorded on tape, it can be sent over the phone lines at high speed to the computer. 6a

TIP Requirements: A DEX high speed interface buffer card must be in place at any TIP line used in conjunction with such a cassette system 6b

Equipment Specs.: 6c

A version of the ICP 3300, with options as specified in the ARC booklet, seems best for our purposes, 6c1

My ICP contact: Fred Flannel, Stamford, Conn., (203) 327-6263 6c2

Current Status ( 3=AUG=74 11:41 ): 6d

I spoke to Fred on 26 July, and he was going to talk to Hardy at SRI/ARC to confirm option specs, I have not heard from ICP since then, I have literature on the ICP 3300, 6d1

VII, Delta Data Display and SRI Line Processor 7

Current Status( 3=AUG=74 10:05) Hardy and Norton were checking availability of display and line processor at ARC so that both could be sent to us, Bair told me on 1 August that both were available to be sent to us within the next couple of weeks. The only issue still remaining is whether the display is to be on loan to us or whether we will keep it and have the current lease agreement transferred to us. If the former is true then we will have to get busy and order a display of our own, 7a

VIII, Printer 8

Purpose: To provide high speed, high quality print out, in

## Hudson Institute Equipment Status

conjunction with the display/line processor units, suitable for offset masters. These print outs will be of high enough quality that they can be used for almost all Hudson documentation requirements

8a

## Equipment:

8b

Memorex 1240, with SRI/ARC specified options, seems best suited for our needs,

8b1

Contact: Larry Foley (203) 637-5421

8b1a

## Current status ( 3-AUG-74 11:55 ):

8c

I have talked to Foley on 23 July, and he called Hardy at ARC to clear equipment specs, and options, I have heard nothing further since that time,

8c1

KWAC Meeting Invitation Response

(J30969) 5=AUG=74 12:04; Title; Author(s); Rudy L. Ruggles/RLR;  
Distribution: /KWAC RLR; Sub-Collections: NIC KWAC; Clerk: RLR;

## KWAC Meeting Invitation Response

In response to Doug Engelbart's message about the KWAC meeting during the week of Sept. 9-13, it sounds fine to me. Put me down as an "accept", to be confirmed as soon as the final meeting plans are solid. I look forward to finding out what happens when I push all of these little buttons in lonely spendor high atop a hill overlooking the Hudson River!

1



(J30970) 5=AUG=74 12:08; Title: Author(s): Peter R. Bono/PRB;  
Distribution: /NSRDC; Sub=Collections: NIC NSRDC; Clerk: PRB;

This is a test message

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