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Final Report

December 1984

DATA BASE MANAGEMENT (U)

By: EDWIN C. MAY

Prepared for:

DEFENSE INTELLIGENCE AGENCY
WASHINGTON, D.C. 20301

SG1J

Attention: [REDACTED]
DT-5A

CONTRACT DAMD17-83-C-3106

**SPECIAL ACCESS PROGRAM FOR GRILL FLAME.
RESTRICT DISEMINATION TO ONLY INDIVIDUALS WITH VERIFIED ACCESS.**

**NOT RELEASABLE TO
FOREIGN NATIONALS**

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Memorandum for Record

RB
22 APR 85

18 APR 85

SUBJECT: (U) Review of SRI-I report on Data Base Management.

a. SRI-I final report, "DATA BASE MANAGEMENT", dated December 1984.

b. IAGPA-F-SD MFR, "Trip Report, SRI, 6-11 May, 1984" dated 14 May 1984.

1. (U) Ref a is a report on the Data Base Management System (DBMS) which has been placed into use for the purpose of analyzing the results of training and experimentation conducted at SRI-I. This DBMS is system-dependant on the SUN system which is installed at SRI-I, but is programmed in "C" language, for UNIX compatibility (to make it transferrable to other systems which can use UNIX and understand the "C" language).

2. (S/NOFORN) The report itself is little more than a laundry list of the hard- and software which SRI-I has put together to form the system. It also includes paragraphs which explain the purposes of the three main databases relating to psychoenergetics, and gives a table showing names of other databases, as well. These others include personnel identification, bibliography references, [redacted] and bulk data on the Mobius Society's psychological and psi testing in OMNI magazine (PSIQI and PSIQII). The interview between Dr. Ed May and [redacted] (ref. b) indicates that the system is also used for other non-CENTER LANE or psychoenergetics related work.

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3. (S/NOFORN) The report was a result of tasking by DIA, not by INSCOM. We were evidently provided a courtesy copy because of our relationship to their psychoenergetics effort. The system has little, if any, relationship to our operational database requirements, in terms of form, content, or format.

4. (C/NOFORN) Since the office system used by CENTER LANE does not have telecommunications capabilities, we cannot directly access or interact with SRI's equipment, and cannot therefore directly access any information in their database. However, in the above mentioned interview (ref. b), Dr. May did state that he would provide any information from the SRI-I database system, if it were properly requested, giving specific data required, and the proper format for our needs. No such request has been necessary to date.

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[redacted]

Computer Operations Manager

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International

*Final Report
Covering the Period October 1983 to October 1984*

December 1984

DATA BASE MANAGEMENT (U)

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SRI Project 7408-11

**SPECIAL ACCESS PROGRAM FOR GRILL FLAME.
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Approved by:

ROBERT S. LEONARD, *Director*
Radio Physics Laboratory

DAVID D. ELLIOTT, *Vice President*
Research and Analysis Division

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Copy No.

This document consists of 12 pages.

SRI/GF-0269

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REVIEW ON: 31 December 2004

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I OBJECTIVE (U)

(U) The objective of this task was to maintain data-base hardware/software systems that were created during previous psychoenergetic projects, and to create new data bases and/or improve the systems as required.

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II Introduction (U)

(S/NF) Data-base management was introduced to the psychoenergetic project at SRI International during FY 1979. During that time, a number of data bases were developed in support of DoD requirements (a full description may be found elsewhere).^{*} The computer on which the data bases were installed was an LSI-11/23 running UNIX[†] as its operating software, and INFORMIX as its data-base management system (DBMS). It became obvious at the end of FY 1983, that the data-base system had reached its design limitations and could no longer meet the project demands. During the period of this current task, it was decided to expand the computer system by upgrading the data-base management system to state of the art. This report describes the computer system that was purchased, the data-base management system that was installed, the supporting publication software, and a new data base that was not included in the above reference.

^{*}(U) E. C. May, "Data Base Management Facility (U)," Final Report, Project 4028, SRI International, Menlo Park, CA (July 1984), SECRET/NOFORN.

[†](U) UNIX is a trademark of AT&T.

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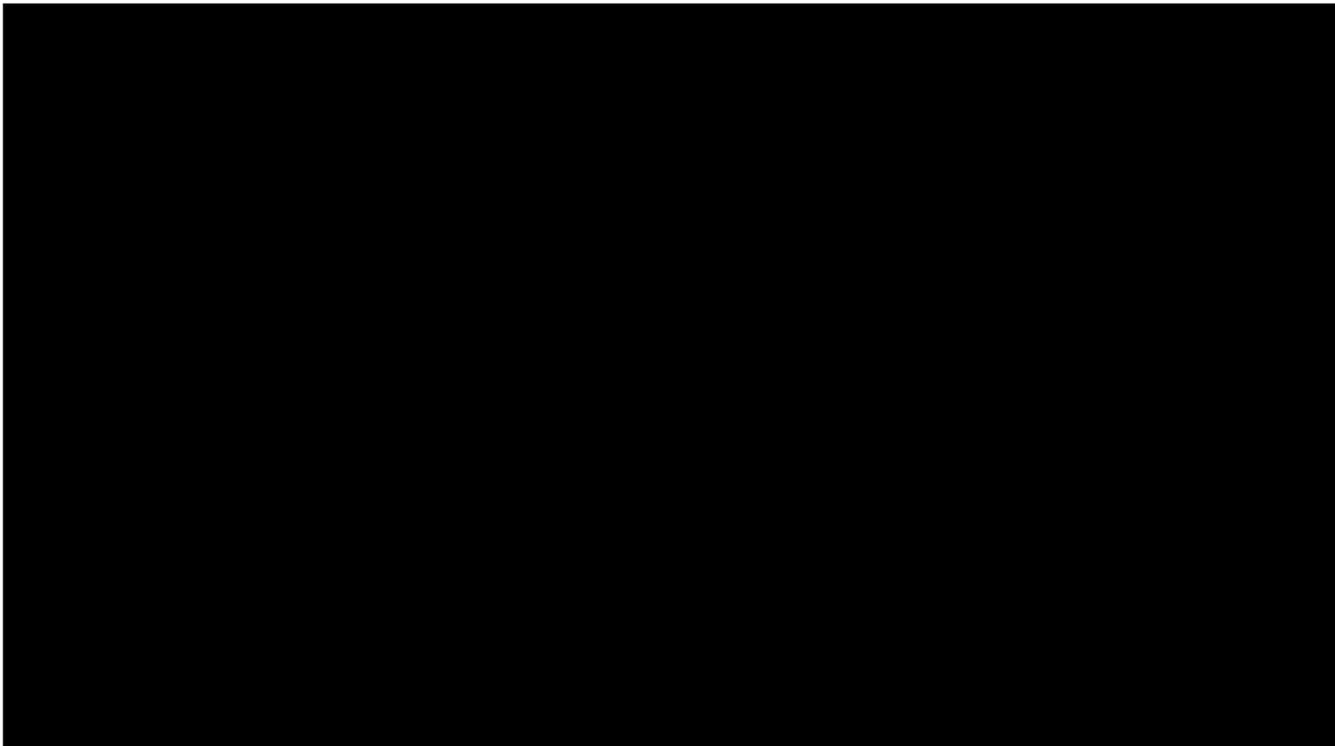
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III Computer System (U)

(U) The new system is a distributed processor, network computer manufactured by Sun Microsystems of Mountain View, California. The system is based on a workstation concept—each user has a complete computer at their desk. This computer is connected by a high-speed link to other similar ones in a network. This architecture provides three distinct advantages over earlier ones:

- Users do not interfere with each other regardless of the size and complexity of their programs.
- Users may interact and share programs with ease.
- The cost per computing power is low, and expansion is cost effective and technically easy to accomplish.

A. (U) Hardware



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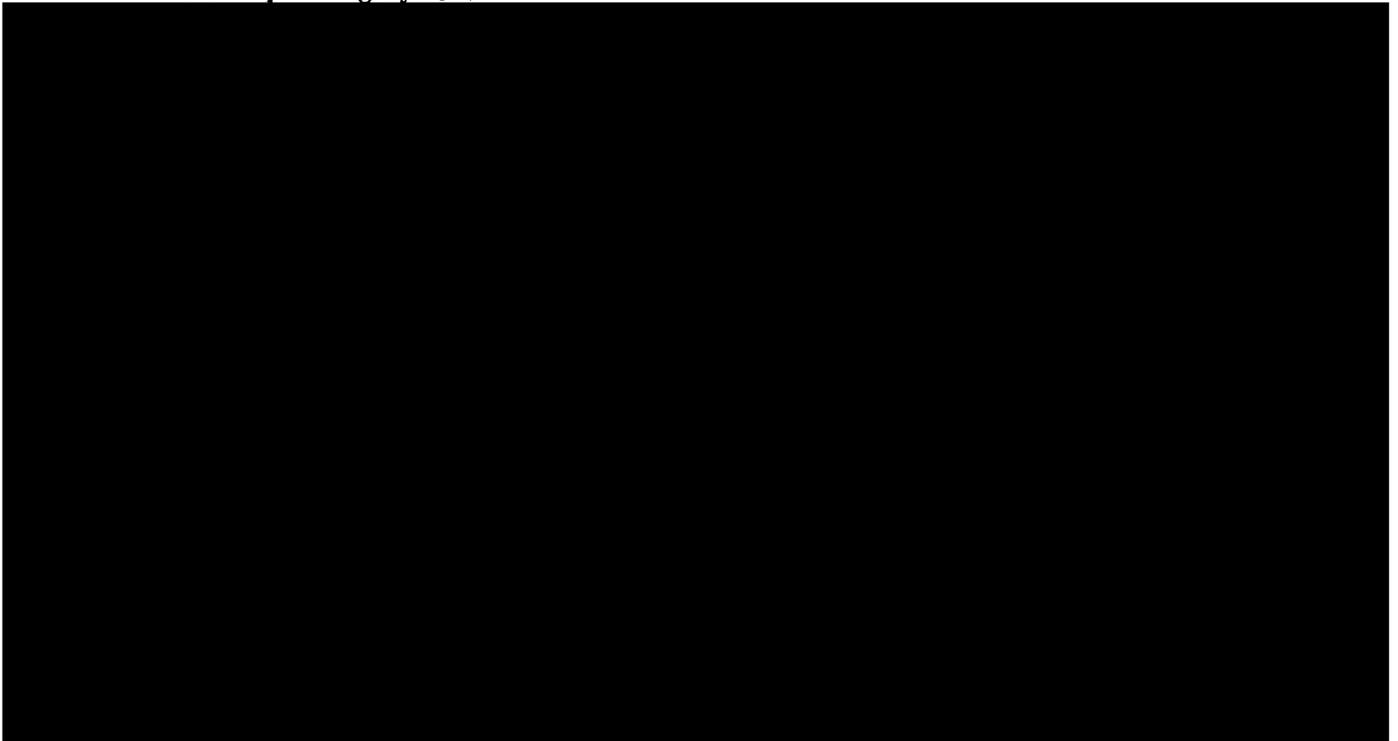
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1. (U) Operating System



2. (U) Commercial Applications

(U) Many types of tasks are so common, that commercial organizations have been formed to provide off-the-shelf programs to meet these requirements. Two of the most common are data-base management and word/text processing. Within the latter, there is a wide variety of programs—ranging from simple text formatting to complete publications packages.

(U) The psychoenergetic project's system has four commercial-application packages:

- INGRES—Data-base Management, Relational Technology, Inc.
- OPS—Office Publication System, Interleaf, Inc.
- XEDII—ASCII Word/Text Processing, Computer Methods, Ltd.
- UNIX|STAT—Statistical Mathematical Calculator, Bell Laboratories.

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(U) The psychoenergetic experiment programs are primarily oriented toward the search problem. We wish to determine the degree to which a computer can be used as an aid in the solution to that problem. The first of these is a code named SEARCH. This program displays an empty square region that is divided into a 20-by-20 grid (the grid is not visible in the display). In one version of SEARCH, a target square is generated randomly and its location is fixed throughout the trial. An RVer then attempts to locate the target square using a graphics-pointing device (mouse). Another version of SEARCH is much like the first one, however, the target square is moving at a rate of one move per ms. Both versions maintain and store appropriate statistics.

(S/NF) A second search-type application program is called computer assisted search (CAS). This experiment is the computer analogue of Associational Remote Viewing (ARV). A simple display consisting of a small square is shown to the RVer. The RVer is then told that all possible answers to the "question of the day" are sliding under the displayed square at a rate of one per ms, and that they should press a button on the mouse when the "correct" answer is momentarily under the square. For example, a Government official was kidnapped in Lebanon; we used this technique in an attempt to find him. The description of that effort can be found elsewhere, but, briefly, a map of Lebanon was divided into 20 areas. The Numbers 1 through 21 were cycled under the display square. Numbers 1 through 20 were associated with the map regions indicated by those labels, while Number 21 represented the "none-of-the-above" option. This kind of CAS is under continuing investigation.

(U) The final type of application programs are the general utility codes not found with the overall UNIX system. These codes consist of short programs that perform various mathematical calculations, and that provide simple user interfaces to some of the more complex UNIX functions. The graphics utilities simply display the results of curve fitting and calculation utilities.

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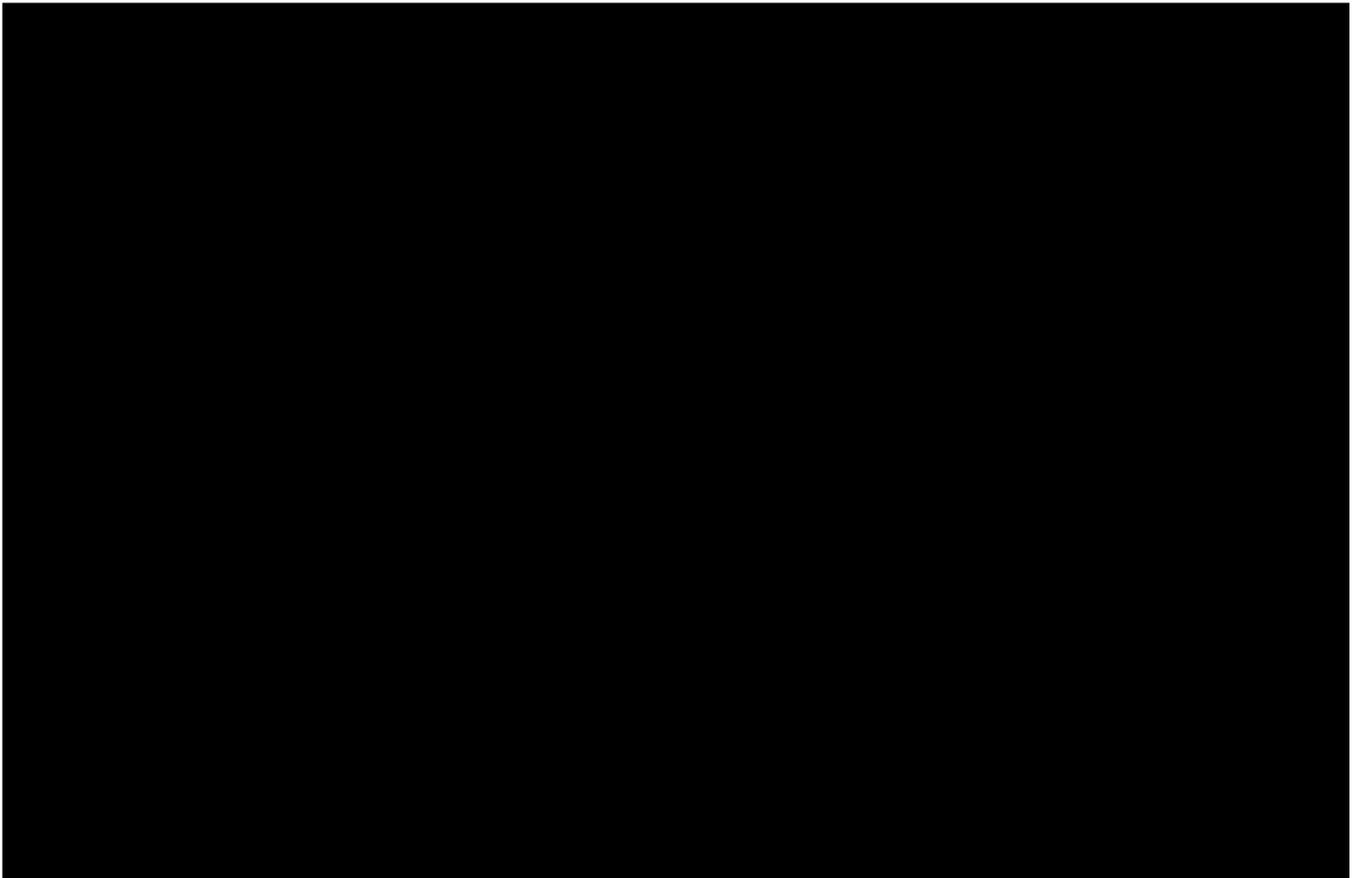
IV Data Bases (U)

(U) Since FY 1979 we have been using a number of different data bases. Some are in current use, while others have been archived. Other data bases are new to the system since that time frame, and still others are under development. Table 1 provides a current summary of the data base activity.

Table 1

(U) SUMMARY OF PSYCHOENERGETIC DATA BASES

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REFERENCES (U)

1. E. C. May, "Data Base Management Facility (U), SRI International, Final Report Project 4028 (July 1984) SECRET-NOFORN.
2. E. C. May, H. E. Puthoff and B. S. Humphrey, "An Automated RV Evaluation Procedure (U)," SRI International, Final Report Project 7408 (November 1984) SECRET-NOFORN.

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