SLAC-366 UC-405 (M)

DEPOT DATABASE: Reference Manual & User's Guide*

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ABSTRACT

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This document provides an overview to the DEPOT database, including descriptions of the various subfiles and their elements and uses.

Acknowledgements:

George Grane, who did much of the SPIRES/Prism programming; Les Cottrell, for his guidance and suggestions; and John Kieffer for being our first "guinea pig."

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DOCUMENTATION CONVENTIONS

SPIRES subfile names are given in slanted text:

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DEPOT DEVICE

Database element names are given in italics:

Nickname

Data entry text (commands, data values) are given in the typewriter font:

MULTIBUS

Parts, Chapters, Sections, and Subsections marked by an asterisk ("*") may be skipped by the casual user.

Part IV: Creating & Updating Records and Part V: Searching & Reporting in Prism are written as tutorials, giving step-by-step instructions, illustrated by screen pictures, for each of these functions.

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Parts, Chapters, Section and Subsections marked by an \bigotimes may be skipped by the casual user.

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I. Introduction to the DEPOT Database

1. Overview of DEPOT

1.1 MOTIVATION

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DEPOT has been developed to provide tracking for the Stanford Linear Collider (SLC) control system equipment. For each piece of equipment entered into the database, complete location, service, maintenance, modification, certification, and radiation exposure histories can be maintained. To facilitate data entry accuracy, efficiency, and consistency, barcoding technology has been used extensively. DEPOT has been an important tool in improving the reliability of the microsystems controlling SLC.

This document describes the components of the DEPOT database, the elements in the database records, and the use of the supporting programs for entering data, searching the database, and producing reports from the information.

Part IV: Creating & Updating Records and Part V: Searching & Reporting in Prism are written as tutorials, giving step-by-step instructions, illustrated by screen pictures, for each of these functions.

1.2 System Overview

DEPOT, as currently implemented, runs under VM, using the Prism interface [1] to the SPIRES database management system[2]. Prism provides a consistent, full-screen interface to SPIRES with context sensitive on-line help and prompting, and easy to use report designing facilities.

Some DEPOT functions may also be exercised by CMS EXECs, or remotely from the MCC/SLC VAX (Reference [5]).

DEPOT provides the capability to maintain records on any individual piece of equipment significant enough to warrant a separate SLAC ID. This includes a description of the equipment, purchase information, maintenance requirements, maintenance history, location history, etc. Related subfiles (described in the next section) provide standardized information for specific device *types*, vendors, and various data entry fields. The data in DEPOT, once entered, can be searched, extracted, summarized, and reported, using Prism, SPIRES, and other CMS tools.

1.3 HUMAN INTERFACE OVERVIEW

The human interface to the DEPOT system is primarily through the Prism interface to SPIRES. This provides full screen displays, menus for choices, and on-line help.

Special EXECs have been written to enter Prism and setup DEPOT, and to provide for simple "batch-mode" input of certain data, e.g. change of State \mathscr{C} Location.

In addition, bar code technology has been utilized to simplify data input, as well as improve the accuracy of the data. All individual devices recorded in *DE-POT INVENTORY* are given a unique bar-coded ID label. The SLAC Property Control ID is used if it is available. Portable bar code readers are available for collection of data in the field, and bar codes are being used on various data entry forms used for entering Location and Maintenance History information. All of this helps offset the data entry requirements needed to make DEPOT function successfully.

2. DEPOT Database Subfiles

The DEPOT system includes several related SPIRES subfiles, including a number which are of interest only to the Data Base Administrator (account maintenance, source code files, etc). The five subfiles which are of interest to the general user are DEPOT DEVICE, DEPOT INVENTORY, DEPOT MAKER, DEPOT TABLE, and DEPOT ALTLOC. They are described briefly here, and in detail in Part III.

2.1 The DEPOT DEVICE SUBFILE

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DEPOT DEVICE is a critical part of the system. Entries in this subfile describe the general characteristics of the individual devices which are recorded in DEPOT INVENTORY. A DEVICE record contains fields for the Nickname, Make, Model, Revision level, Drawing Package number, Class (CAMAC, MULTI-BUS, Power Supply, etc) and other information which is common to all the individual devices of the type. This serves to insure uniformity in the DEPOT database, which makes meaningful searches and summary reporting possible.

2.2 The DEPOT INVENTORY SUBFILE

This is the subfile that will be of interest to the great majority of DEPOT users. They may never need to be aware that any other subfiles even exist.

DEPOT INVENTORY is the central subfile, containing detailed records for each ID'd piece of equipment. DEPOT INVENTORY is linked to DEPOT DE-VICE, so that common information, such as Nickname, Make, Model, Revision, is displayed with the Inventory record. Information maintained in the Inventory record includes the complete Location History and Maintenance History.

DEPOT INVENTORY may also contain "logical" system records. For instance: the micro controlling sector 14 of the Linac is referred to as L114, regardless of the specific piece of hardware performing that job at any given time. A record in DEPOT INVENTORY has been created, with an ID of "LI14". (For reasons having to do with the special uses of these records, the physical location of LI14 is stored in the Serial Number). It can be used to record system information specific to LI14, but independent of the particular hardware in use at that location (e.g. crate profiles, maintenance schedules, etc).

2.3 \otimes The DEPOT MAKER Subfile

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DEPOT MAKER contains a list of vendor names, including common aliases. A unique code is associated with each vendor; this code is what is actually carried in the DEVICE and INVENTORY records, although linkage to DEPOT MAKER allows the name to be displayed to the user. This feature again allows for uniform data entry, so that there is no confusion when a user enters IBM, I.B.M., or International Business Machines, etc. All are treated as equivalent and standardized within DEPOT as "IBM".

$-2.4 \otimes$ The DEPOT TABLE Subfile

DEPOT TABLE contains lists of valid terms for fields whose content is required to be one of a finite list of entries; *e.g.* Procedure Type must be CALIB, CERT, CONFIG, INSPECT, MOD, or PM. This, again, insures uniform data entry. Maintaining these terms in a database subfile simplifies the process of adding new terms, as they are required.

DEPOT TABLE also contains the list of VM IDs valid for updating records, by Maintenance Group, in DEPOT INVENTORY (see Sections 12.1).

2.5 \otimes The DEPOT ALTLOC Subfile

DEPOT ALTLOC contains a list of aliases for specific beam-line locations. The physical ("logical") location is concatenated with the slot from the Location.Id (e.g. LI18/CR04-S19) and used as the search value to find the alias (e.g. LI18,901 for the example).

At the current time, aliases are defined only for the Beam Position Monitor CAMAC modules.

3. Report Facilities

Reports are one of the main functions of any database. The data is of no particular value unless it can be presented in useful form.

Reports may list selected elements of individual records, summarize data from a number of individual records, display relationships between various records, or analyze data in the records and present information not readily apparent in the individual records (*e.g.* statistical data for repair times).

DEPOT Reports can be broken down into two broad categories, based on the method of production: reports available in the Prism environment – either pre-defined or designed by the user, and custom reports produced by programs running outside of Prism.

3.1 PRISM Reports

Reports available in the Prism environment include Prism DISPLAYS available to all users, public REPORTS of general interest available to all users, and user-defined REPORTS generated using Prism's Report feature.

A detailed description of the available displays and reports, as well as a guide to using them, is contained in Part V: Searching & Reporting in Prism.

3.1.1 PRISM DISPLAYS

The Prism DISPLAY formats may be used for displaying records on the terminal, printing them, or saving them to a file. Chapter 16: The Prism DIS-PLAY Command discusses DISPLAYs in detail.

3.1.2 PRISM PUBLIC REPORTS

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A small number of public reports are shown on the Prism Report menu. They are available to all users. They are described in Chapter 18: The Prism REPORT Command.

3.1.3 PRISM USER-DEFINED REPORTS

User-defined reports can be defined using the Prism searching and sorting facilities and the "SETUP REPORT" feature, while in DEPOT. Normally, these reports are available only to the user who creates them; however, useful formats can be shared with other users by contacting the Data Base Administrator (DBA).

User-defined reports are discussed in detail in Chapter 18: The Prism RE-PORT Command.

3.2 CMS Reports

Report generation is not limited to the Prism environment. Special purpose reports can be created using the general facilities of SPIRES, outside the Prism interface. The SPIRES output can be further refined and formatted using any of the available programming tools, including REXX and XEDIT. These require the services of a programmer knowledgeable in SPIRES. Part VI: Non-Prism Reports & Utilities references the special purpose reports that have been defined.

II. \otimes Preparing to Use DEPOT

$4. \otimes \text{Definition of Purpose}$

DEPOT is a very flexible database with diverse functionality. It is adaptable to many different types of application needs. For example, it can track hardware, logical subsystem performance, correlate logical and physical locations, and store system and hardware configuration information. There are three necessary analysis steps which must be performed to optimize the use of DEPOT's diverse functionality. These are:

• Application Analysis

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- Equipment Analysis
- Data Collection and Entry Analysis

5. \otimes Application Analysis

This analysis question asks: "What do you want DEPOT to do for you?". The answer is **NEVER** as simple as: "Track the location and maintenance history of XYZ device". What is to be tracked must be explicitly defined.

For example: a device's location can be tracked by physical location, logical subsystem location, or by the assembly it's mounted in (*e.g.* memory boards or custom chips on a CAMAC or FASTBUS module). When components in DE-POT are located by the assembly that they are mounted in and the assembly is relocated, the components' locations are automatically updated. This avoids the need to update the location of every component in an assembly when the assembly is moved.

Is there a need to have system configuration information readily available? If so, this must be planned for. For maintenance history: what specific procedures need to be tracked (*e.g.* modifications, certifications, inspections, etc)? These must be planned for. To facilitate maintenance analysis, it is important to define specific terms to describe specific situations in the database, so that the maintenance information can be readily analyzed.

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The application analysis must be documented so that the users know what can be expected from DEPOT. After 6 months of data entry, where configuration analysis was not planned for, a user cannot expect DEPOT to suddenly do that for him. The application analysis should be documented and carefully approved by the users, so that they are not disappointed when it comes time for them to make use of their data in DEPOT.

The application analysis should also include detailed descriptions of the reports needed. Only by defining the reports that are going to be needed, can one assure that collection and entry of the relevant data will be performed.

$6. \otimes Equipment Analysis$

Once the application analysis is done, and before the equipment of a subsystem is entered into DEPOT, the equipment must be thoroughly analyzed. The analysis includes:

- 1. Making a list of all the makers, models, and revision levels.
- Deciding how to classify the equipment. Appropriate classification will facilitate database searching and analysis. There are two fields for classification: Class and Generic. Class is the more general classification. Some of the current Classes are: FASTBUS, CAMAC, VME, MULTI-BUS, oscilloscopes, power supplies, and PC. Generic is more specific. Some of the CAMAC Generics are: SAM, DAC, ADC, PPOM, IDOM, IDIM, CRATE, and BLOWER. Some PC generics might be CPU, monitor, serial port, and memory.

3. A unique nickname must be defined for each (*Make, Model, Revision*) triplet. This may often be just the model number and the maker. It should be chosen with consideration given to how it will be used.

In particular: truncated searching provides an additional method of grouping devices. The command "FIND NICKNAME SAM*" will find all records in the database whose nickname begins with "SAM". For example, there are versions of the Sampling Analog Monitor, revision E (commonly known as a "SAM") from four sources: the SLAC model 123-603, DSP model 2032, Kinetic Systems model 3527, and Transiac model 2032. By assigning these four devices the nicknames "SAM-E,SLAC", "SAM-E,DSP", "SAM-E,KINETIC", and "SAM-E,TRANSIAC", all of the records for these devices (which are functionally identical) can be accessed by the command "FIND NICKNAME SAM-E*". By having separate Nicknames for each Maker, maintenance comparisons can be made between various manufacturers. The same principle may also be used for the Class and Generic fields.

- 4. A list must be made of which maintenance groups will be maintaining which Inventory entries in DEPOT.
- 5. Locations for the equipment must be defined and uniquely identified. See Reference [4] for an example.
- 6. If there are any maintenance procedures to be tracked, they should be detailed and uniquely identified.
- 7. If a detailed maintenance history is to be maintained for some equipment, its common problems, symptoms, and repairs should be detailed. The problems, symptoms, and repairs must be entered consistently (with consistent phraseology and syntax) to be analyzable. DEPOT provides space in the DEVICE records to maintain lists of symptoms and repairs by Maintenance Type, which are presented as choices at the

time the Maintenance History for individual items is entered into the database.

- 8. The kind of data that needs to be entered for equipment needs to be detailed. Examples here include, radiation exposure, calibration data, location data, maintenance data, etc.
- 9. A list of where data related to the equipment originates must be generated. This information is used to define the data collection and data entry mechanisms.
- 10. A description of how the data in the database is going to be used, and what reports are going to be needed, should be made. It is important to assure that all the data needed for these reports is going to be entered in DEPOT.

The importance of the equipment analysis phase can not be emphasized enough. The usefulness of DEPOT from now on is almost completely dependent on the organization, consistency, and quality of the data entered into the system.

7. \otimes Data Collection & Entry Analysis

In order to effect consistent data collection and data entry, the data collection requirements must be defined. This entails:

- 1. Identifying all sources of data where is the data generated?
 - (a) On the maintenance bench
 - (b) In the field
 - (c) In the lab
 - (d) By people changing modules
 - (e) By users

2. Plan how the data is to be collected.

(a) By form

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- (b) By portable data collector
- (c) By on-line data entry at the time of data generation. (What will happen when the computer is down?)
- 3. Where is the data going to be collected? Will it be sent to a central point to be entered by a data entry clerk?

Accurate, reliable, consistent data entry does not automatically happen! It must be planned for.

III. \otimes DEPOT Subfiles

The DEPOT system includes several related SPIRES subfiles, including a number which are of interest only to the Data Base Administrator (account maintenance, source code files, etc). The four subfiles which are of interest to the general user are DEPOT DEVICE, DEPOT INVENTORY, DEPOT MAKER and DEPOT TABLE. Of these, DEPOT INVENTORY is of primary interest to all users of DEPOT; DEPOT MAKER and DEPOT DEVICE are of interest mainly to the primary data-entry users; DEPOT TABLE is of interest mainly to the Data Base Administrator, but impacts on anyone establishing guidelines for validating the data entered into various fields of DEPOT INVENTORY or DEPOT DEVICE.

This Part contains details about the individual DEPOT subfiles which may not be of concern to the casual user.

8. \otimes DEPOT DEVICE Subfile Elements

DEPOT DEVICE is a critical part of the system. Entries in this subfile describe the general characteristics of the devices which are recorded in DEPOT INVENTORY: Nickname, Make, Model, Revision level, Drawing Package number, Class (CAMAC, MULTIBUS, Power Supply, etc) and other information which is common to all the individual devices of the type. This serves to insure uniformity in the DEPOT database, which makes meaningful searches and summary reporting possible.

The elements of DEPOT DEVICE are listed and described in detail below.

INDEX entries in the following list are coded as follows: "X" = element is indexed; "*" = element is indexed, and uses truncated searching ("FIND MODEL A*" finds all models beginning with "A"); "W" = each significant word of the element is separately indexed. "V" = a virtual element (pointer to an element in another subfile).

- Device. Code is the record key, made up of the concatenated "Maker. Id, Model, Revision". The user never sees this field directly, but it is used to link the DEVICE and INVENTORY records.
- Nickname (X,*) is a 28-character field labelled "Nick" on the input screens. Nickname is used as a convenient shorthand for Make/Model/Rev. It is, preferably, the common name for the device used at SLAC (e.g. "BPM" for Beam Position Monitor). If no common nickname is used at SLAC, Nickname can be entered as Make,Model,Rev Rev may be omitted if it is not relevant.

However, be careful in selecting the nickname: truncated searching provides a method of grouping devices. The command "FIND NICKNAME SAM*" will find all records in the database whose nickname begins with "SAM". For example, there are versions of the *Sampling Analog Monitor* (commonly known as a "SAM") from four sources: the SLAC model 123-603, DSP model 2032, Kinetic Systems model 3527, and Transiac model 2032. By assigning these four devices the nicknames "SAM-E,SLAC", "SAM-E,DSP", "SAM-E,KINETIC", and "SAM-E,TRANSIAC", all of the records for these devices (which are functionally identical) can be accessed by the command "FIND NICKNAME SAM-E*". If, instead, they had been named "SLAC,123-603", "DSP,2032", "KINETIC,3527", and "TRANSIAC,2032" there would be obvious problems in selecting all these records.

The same principle may also be used for the *Class* and *Generic* fields.

• Maker (V,*) is a 30-character field for the Maker name. The display of the name is controlled by entries in the MAKER file; so that "International Business Machines" may be typed in, but "IBM" will always be displayed.

When creating a new DEVICE record, the Maker name should be en-

tered in the briefest recognizable form – aliases are recognized, but it is possible to enter the name in a way that will not be recognized, even though the maker exists in *DEPOT MAKER*, *e.g.* by spelling out "Incorporated". This can lead to unnecessary and undesirable duplications in *DEPOT MAKER*.

If a *DEVICE* record is created with a *Maker* which is not already entered in *DEPOT MAKER*, an entry screen will be displayed for creating the *MAKER* record. A complete description of the *DEPOT MAKER* record is contained in Section 2.3.

Maker is actually a "virtual" element – a link to the DEPOT MAKER subfile. The DEPOT MAKER subfile contains a Maker.Id (see below), and a variety of commonly used forms of the Maker name; e.g. "IBM", "I B M", "I.B.M.", etc. for "International Business Machines, Inc". All forms of the Maker are combined in a single index in which each significant word is separately indexed. This simplifies the task of finding the records for a certain maker, without knowing how the name was entered. It may occassionally cause some confusion when an Alias is defined for a Maker, but the Alias is not part of the Maker name. For example, "FIND MAKER LABS" will list "E-H Electronics" in the result because it has an Alias of "E.H. Research Labs".

• *Maker.Id* is the 6-character internal key form of the *Maker* name. This is the value that is actually carried in the *DEVICE* and *INVENTORY* records, linking them to the *MAKER* file.

Persons doing "batch" entry of records to the subfiles need to be aware of this field.

- Model (X,*) is a 25-character field containing the manufacturer's model number.
- Revision is a 6-character field labelled "Rev-Var" on the input

screens. It is the functional revision or variation level of the device – distinguishing it from other similar devices with different functionality.

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- Generic (X,*) is a 22-character field. It is provided to allow grouping of similar devices, e.g. multiple revision levels of a Sampling Analog Monitor may have Nicknames of "SAM-C", "SAM-D", and "SAM-E", and all have a Generic name of "SAM" to simplify searching for all SAM modules, regardless of revision level.
- Class (X,*) is a 12-character field. It is also provided to allow grouping of similar devices, but at a higher level: Classes may include "CAMAC", "MULTIBUS", "FASTBUS", "Power Supply", and subsystem names (e.g. "BPM"), etc.
- Fullname (X,*) is a 46-character field, also called Full.Name labelled "Full Name" on the input screen. It contains a fully descriptive name of the device.
- Desc (X,*) is a 180-character field, also called Description. It is a freeform text field for describing the nature and function of the device.
- Slot (X) is a 5-character field labelled "Active Position..." on the input screen. It is the "active" slot of a CAMAC, MULTIBUS, FAST-BUS, etc. module, counted from the right side.
- Width (X) is a 5-character field. It contains the width of the device, counted in W.Units (below).
- W.Units is a 5-character field. It contains the units used to measure the width of the device: SLOT, RACK, IN, or CM.
- *Height* (X) is a 5-character field. It contains the height of the device, counted in *H.Units* (below).
- *H.Units* is a 5-character field. It contains the units used to measure the height of the device: IN, CM, or RU (rack units).

+12V is a 5-character field. It lists the number of amps at +12 volts. -12V is a 5-character field. It lists the number of amps at -12 volts. +6V is a 5-character field. It lists the number of amps at +6 volts. -6V is a 5-character field. It lists the number of amps at -6 volts. +24V is a 5-character field. It lists the number of amps at +24 volts. -24V is a 5-character field. It lists the number of amps at -24 volts. +15V is a 5-character field. It lists the number of amps at +15 volts. -15V is a 5-character field. It lists the number of amps at -15 volts. +5V is a 5-character field. It lists the number of amps at +5 volts. -5.2V is a 5-character field. It lists the number of amps at -5.2 volts. -2V is a 5-character field. It lists the number of amps at -2 volts. +28V is a 5-character field. It lists the number of amps at +28 volts. 110V is a 5-character field. It lists the number of amps at 110 volts. 208V is a 5-character field. It lists the number of amps at 208 volts. Aux1 is a 14-character field. It is provided for additional free-form data. Aux2 is a 14-character field. It is provided for additional free-form data. Aux3 is a 14-character field. It is provided for additional free-form • data. Aux_4 is a 14-character field. It is provided for additional free-form data.

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• Aux5 is a 14-character field. It is provided for additional free-form data.

• Aux6 is a 14-character field. It is provided for additional free-form data.

- Maint.Str is a repeating structure that may contain lists of common symptoms and repairs, separated by Maintenance Type (*i.e.* the list of symptoms and repairs may be different for a MOD or a CONFIG than for a REPAIR).
 - Maint. Type is a 13-character field containing a code for sorting the various type of maintenance procedures. Valid entries are CALIB (Calibration procedure), CERT (Certification procedure), CONFIG (Configuration procedure), FIELD CALIB (Field Calibration procedure), FIELD CERT (Field Certification procedure), FIELD CONFIG (Field Configuration procedure), FIELD INSPECT (Field Inspection procedure), FIELD MOD (Field Modification procedure), FIELD RE-PAIR (Field Repair procedure), INSPECT (Inspection procedure), MOD (Modification procedure), PM (Preventive Maintenance procedure), and REPAIR (Repair procedure). Additional Repair Types may be defined by contacting the DBA.
 - Symptom.Str is a repeating structure within Maint.Str which contains the list of symptoms for the Maintenance Type.
 - ♦ Symptom is an 18-character field containing the text of the symptom.
 - *Fix.Str* is a repeating structure within *Maint.Str* which contains the list of repairs for the Maintenance Type.
 - \diamond Fix is an 18-character field containing the text of the repair.
- *Procedure.Str* is a repeating structure that may contain information regarding Maintenance and other procedures which are defined for a type of device, including:

- Proc.Type is a 9-character field labelled "Type" on the input screen. It names the procedure type (currently: "CALIB", "CERT", "CONFIG", "INSPECT", "MOD", and "PM")
- Proc is a 390-character field (6 × 65-character lines) labelled
 "Desc" on the input screen. It is a brief description of the procedure.
- Proc.Name is a 65-character field labelled "Name" on the input screen. It contains the unique identifier of the procedure.
- Days is a 4-character field labelled "Interval/Days" on the input screen. It is the interval at which the procedure is to be performed ("0" indicates no relevant interval)
 - Reference is a 130-character field labelled "Ref" on the input
 screen. It contains a pointer to any other procedure documentation (for instance, an on-line file or Technical Publication)
- Pdate.Add, Ptime.Add, and Puser.Add are automatically generated to record the date, time and user's VM ID when the structure is added.
- Pdate. Upd, Ptime. Upd, and Puser. Upd are automatically generated to record the date, time and user's VM ID when the structure is last updated.
- Draw.Str is a repeating structure that may contain the SLAC Drawing Package Number for a device and information on the components (sub-assemblies, ICs, etc) of the device. It may also be used for the crate profile information for system records (see the discussion in Section 9.1.3).
 - Drawing is a 28-character field labelled "Drawing Pkg Number" on the input screen. It contains the SLAC drawing package number, if applicable.

- -- CD.Str holds the component information, which repeats for each Draw.Str. The data in the structure includes:
 - \diamond CD is a 7-character field. It contains the component designation (e.g. U72).
 - Part. Type is a 28-character field labelled "Part Type" on the input screen. It contains the part type of the component.
 - ♦ Sa. Type is a 17-character field labelled "SA Type" on the input screen. It contains the sub-assembly type of the component.
 - Current is a 3-character Yes/No field to indicate whether or not the component is the latest, current version (vs. an older version still in service, but not current).
 - \diamond Ok is a 3-character Yes/No field to indicate whether or not the component is defective or obsolete.
 - FW.Index is a 54-character field labelled "Fwindex" on the input screen. This is a comment field containing a pointer to the firmware file for a programmable component, or other information.
 - Cdate.Add, Ctime.Add, and Cuser.Add are automatically generated to record the date, time and user's VM ID when the structure is added.
 - Cdate.Upd, Ctime.Upd, and Cuser.Upd are automatically generated to record the date, time and user's VM ID when the structure is last updated.
- Add. Userid and Add. Date are automatically generated to record the date and user's VM ID when the record is added.

• All (V,*) is an artificial term used for **Searching** only. When used, it retrieves **all** records in *DEPOT DEVICE*. Its syntax is: "FIND ALL RECORDS".

9. O DEPOT INVENTORY Subfile Elements

This is the subfile that contains the data for the individual units. It is the only subfile that will be of interest to the great majority of "casual" DEPOT users.

DEPOT INVENTORY is the central subfile, containing detailed records for each ID'd piece of equipment. DEPOT INVENTORY is linked to DEPOT DE-VICE, so that common information, such as Make, Model, Revision, is displayed with the Inventory record. Information maintained in the Inventory record includes the complete Location History and Maintenance History (see the subsections following the list of elements).

---- DEPOT INVENTORY may also contain "logical" system records. For instance: the micro controlling sector 14 of the Linac is referred to as L114, regardless of the specific piece of hardware performing that job at any given time. A record in DEPOT INVENTORY has been created, with an ID of "L114", to record information about the micro subsystem L114 which is independent of any specific micro hardware.

INDEX entries in the following list have been coded as follows: "X" = element is indexed; "*" = element is indexed, and uses truncated searching ("FIND MODEL A*" finds all models beginning with "A"); "W" = each significant word of the element is separately indexed; "V" = a virtual element (pointer to an element in another subfile).

• ID (*) is a 19-character field. It contains the SLAC ID of the item or a logical subsystem name. This is usually a bar-coded ID assigned by Property Control, LEP, or some other department. This number must be absolutely unique throughout SLAC. For new equipment, new IDs and bar-coded ID tags may be created to suit individual applications; *e.g.* a unique prefix followed by the item's *Serial Number* may be appropriate. A bar code printer is available in the Controls Department. Never use pure numeric sequential *ID's* starting below 01000000.

- DID (V,*) is a synonym for ID. It is defined to allow its use in compound search statements ("FIND DID nnnnnnn AND STATE MAINT"). The ID element, itself, cannot be used this way because of restrictions unique to the record key element.
- Nickname (V,*) is a 28-character field labelled "Nick" on the input screen. It is used as a convenient shorthand for Make/Model/Rev, copied from DEPOT DEVICE.
- Maker (V,*) is the 30-character Maker name (Offname) copied from DEPOT MAKER via the DEPOT DEVICE subfile.
 - Maker is actually a "virtual" element a link to the DEPOT MAKER subfile. The DEPOT MAKER subfile contains a Maker.Id (see below), and a variety of commonly used forms of the Maker name; e.g. "IBM", "I B M", "I.B.M.", etc. for "International Business Machines, Inc". All forms of the Maker are combined in a single index in which each significant word is separately indexed. This simplifies the task of find the records for a certain maker, without knowing how the name was entered. It may occassionally cause some confusion when an Alias is defined for a Maker, but the Alias is not part of the Maker name. For example, "FIND MAKER LABS" will list "E-H Electronics" in the result because it has an Alias of "E.H. Research Labs".
- *Model* (V,*) is the 25-character manufacturer's model number, copied from the *DEPOT DEVICE* record.
- Rev-var (V,*) is the 6-character functional revision level of the device (distinguishing it from other similar devices with different functionality),

copied from the DEPOT DEVICE record.

- Generic (V,*) is a 22-character field copied from the DEPOT DEVICE record.
- Class (V,*) is a 12-character field copied from the DEPOT DEVICE record.
- Serial (*) is a 19-character field. It contains the manufacturer-assigned serial number. This number must be unique for any given Make & Model.
- Po.No (*) is a 21-character field labelled "Procurement Id" on the input screen. It contains the Purchase Order under which the device was purchased.
- Account (*) is a 14-character field. It contains the account number used for the purchase.
- Cost is a 15-character field. It contains the purchase price of the item.
- Date-Rec (*) is a 8-character field labelled "Date Entered Service" on the input screen. It is the date the item was received at SLAC.
- Own-Gr (*) is a 16-character field labelled "Owning Group" on the input screen. This item is a carry-over from the LEP database: the initials of the group which "owns" the item, although it can be used for other purposes.
- Mg (*) is a 12-character field labelled "Maintenance Group" on the input screen. It contains the initials of the group responsible for maintenance of the item in the database. This field also serves as a key to the individuals allowed to update this record in the database.
- Comment (W,*) is a 132-character field used for any descriptive comments needed for the record. Among other things, it currently contains the old LEP ID for items which have been assigned new, bar-coded IDs.

- Verify is a 3-character field labelled "Data Verified" on the input screen. It is a Yes or No string indicating whether the basic descriptive information has been checked and verified when the record was added to the database. This field **must** be set to Yes before updates can be made to the record.
- Verify. Id is an 8-character field labelled "Userid" on the input screen. It is the userid of the person verifying the data.
- Lep.Location is a carry-over from the LEP database.

- Location.Str is a repeating structure containing the State & Location history of the device. Note that several of the elements have virtual elements defined which point to the latest entry in the structure. This allows for searching and/or reporting those elements only for the last (presumably "current") Location History entry.
 - State (*) is a 17-character field containing the state of the device at this location. Valid states include MAINT (item is undergoing maintenance), SPARE (item is available for use), IN USE (item is in use/service), OUT (item has been replaced at previous location), UNKNOWN (self-explanatory), and SALVAGE (item has been salvaged). If the item has a Loc.Id, the state of the parent is automatically copied into this entry.
 - * Cstate $(V,^*)$ is the latest occurrence of State.
 - Location (*) is a 17-character field containing the physical location of the item. If the item has a Loc.Id, the location of the parent is automatically copied into this entry.

Location is entered either as "BBBB-nnnn-...", where "BBBB" is the building number or beam-line sector number; or as the "logical" name of some part of the control system: *LI14* is the name of the micro controlling Sector 14, which is probably more useful to interested parties than "KA14-0132" – which is literally correct, but not nearly as useful to most people. See Reference [4] for a complete description of the Location nomenclature for use in DE-POT.

* Curloc (V,*) is the latest occurrence of *Location*.

- Loc.Id (*) is a 30-character field – labelled "Location Id" on the input screen. It contains the DEPOT ID of a device in which this device is located; e.g. the ID of a MULTIBUS cage is given for the MULTIBUS cards plugged into the cage, the ID of a WSM module is given for the memory sub-assemblies plugged into the module, etc. If there is no parent device for this item, Loc.Id is left blank.

Loc. Id can have two parts, separated by "-": the ID of the parent, and a component designation; e.g. for a board located in slot 15 of a CAMAC crate whose ID is 15098765: "15098765-S15".

- ◊ If Loc.Id is given, Location and State are copied from the parent record, ignoring any attempt to set them explicitly for this item.
- ♦ Whenever a parent record's Location or State are changed, the change is propagated to all the records which reference it, and the records which reference them, etc.
- ♦ The use of the Loc.Id field provides a number of advantages. These are described in Subsection 9.1.1: Location History.
- * Clocid $(V,^*)$ is the latest occurrence of Loc.Id.
- * Fclocid (V,*) is the latest occurrence of Loc.Id, including the component designation.
- L.Date (*) is an 8-character field labelled "In" on the input screen - containing the date the change of State and/or Location

occurred.

- * Cdate (V, *) is the latest occurrence of L.Date.
- L. Time is a 4-character field labelled "at" on the input screen
 containing the time the change of State and/or Location occurred.
- L.Name is an 8-character field labelled "By" on the input screen – for the name of the person responsible for the change of State/Location.
- L. User is an 8-character field automatically generated by SPIRES, containing the VM ID of the user making the Location History entry.
- Locat. Times is an internally generated count of the number of entries in the location history.
- Use-Gr (*) is a 5-character field labelled "Using Group" on the input screen. It is a carry-over from the LEP database. If used, it indicates the group currently using the item.
- Exp (*) is a 5-character field. It is a carry-over from the LEP database. If used, it indicates the experiment the item is being used for.
- User.Name (*) is a 13-character field labelled "Name" on the input screen. It is a carry-over from the LEP database. If used, indicates the individual in possession of the item.
- User.Phone is a 12-character field labelled "Phone" on the input screen. It is a carry-over from the *LEP* database. If used, indicates the user's phone number.
- *Proc.Str* is a repeating structure containing information regarding maintenance and other procedures applicable to the device. If any procedures are defined in the *DEVICE* record, they will automatically be included in the *INVENTORY* records. The procedures may be modified,

or additional procedures may be defined for individual *INVENTORY* records.

Proc. Type is a 9-character field - labelled "Type" on the input screen. It contains the name of the type of procedure. Valid procedure types are CALIB (Calibration procedure), CERT (Certification procedure), CONFIG (Configuration procedure), INSPECT (Inspection procedure), MOD (Modification procedure), and PM (Preventive Maintenance procedure). Additional Procedure types may be defined by contacting the DBA.

- *Proc.Name* is a 65-character field - labelled "Name" on the input screen. It contains the name of the procedure.

Proc.Desc is a 390-character field – labelled "Desc" on the input
screen. It contains is a description of the procedure.

- Proc.Days is a 4-character field labelled "Interval/days" on the input screen. It contains the interval at which the procedure is to be performed. If there is no interval, Proc.Days should be 0.
- Proc.Ref is a 130-character field labelled "Ref" on the input screen. It contains a pointer to documentation describing the procedure; either an on-line file or SLAC pub, etc.
- P.Date, P.Time and P.User are automatically generated by SPIRES to record the date, time and user's VM ID when the structure was created or last updated.
- Drawing (*) is a 28-character field. It contains the SLAC drawing package number for the device, if any.
- *CD.Str* is a multiply occurring structure for information about the components of the device.

The current use of these fields, which is to hold the functional crate profile information in the "logical" system records, is described in Subsection

9.1.3: Component Description – Crate Profiles.

If any component structures are defined in the *DEVICE* record, they will automatically be included in the *INVENTORY* records. The data may be modified for individual *INVENTORY* records.

- CD is a 7-character field. It contains the component designation, e.g. U48 is the component designation of the processor subassembly on the Intel iSBC 86/30 MULTIBUS CPU board.
- Sa.Id is a 17-character field labelled "Subassembly Id" on the input screen. It contains the bar-coded ID of a sub-assembly. The relationship implied by this information is more conveniently available through the use of the Loc.Id field in the location history. Updating this field is not automatically supported by the appliation it must be done by the user.
 - Part. Type is a 28-character field labelled "Part Type" on the input screen. It contains the type of the component.
- FW.Index is a 54-character field labelled "Fwindex" on the input screen. It contains a pointer to an on-line file containing the firmware, if any, for the component.
- C.Date, C.Time and C.User are automatically generated by
 SPIRES to record the date, time and user's VM ID when the structure was created or last updated.
- *Tld.Flag* (*) is a carry-over from the LEP database: a Yes/No field indicating whether the device has a dosimeter attached. This field is not currently used by DEPOT. It is recommended that a Maintenance History record be used to maintain TLD information.
- *Repair.Status* is not currently used by DEPOT.
- *Maint.Str* is a multiply occurring structure containing the maintenance history of the item. Note that several of the elements have virtual el-

ements defined which point to the latest entry in the structure. This allows for searching and/or reporting those elements only for the last Maintenance History entry.

 M. Type (*) is a 13-character field - labelled "Maintenance Type" on the input screen. It contains a code for sorting the various type of maintenance procedures. Valid entries are CALIB (Calibration procedure), CERT (Certification procedure), CONFIG (Configuration procedure), FIELD CALIB (Field Calibration procedure), FIELD CERT (Field Certification procedure), FIELD CONFIG (Field Configuration procedure), FIELD INSPECT (Field Inspection procedure), FIELD MOD (Field Modification procedure), FIELD REPAIR (Field Repair procedure), INSPECT (Inspection procedure), MOD (Modification procedure), PM (Preventive Maintenance procedure), and REPAIR (Repair procedure). Additional Repair Types may be defined by contacting the DBA.

- Cmtype (V,*) is the latest occurrence of M.Type.

- Problem is a 58-character field labelled "Reported Problem" on the input screen. It contains the original reason the device entered a maintenance cycle.
- *Cater* is a 58-character field. It contains the relevant CATER report number(s), if any exist.
- Symptom (W,*) is a 201-character field. It contains a description of the actual condition of the device, as determined by the repair person. This field will be useful for summary reporting and analysis only if the entries are standardized; e.g. if "no trouble found" is entered as No Trouble Found, N.T.F. and NTF, summarizing this category becomes a hopeless task. Standardization has been facilitated by including a list of common Symptoms in the DE-VICE record, which is displayed whenever a Maintenance entry is

made. Standard symptoms can be included by checking the appropriate box on the entry screen.

- *Cmsymptom* (W,*) is the *Symptom* element from the latest Maintenance record.
- Fix is a 201-character field labelled "Desc. of repair" on the input screen. It contains a description of the maintenance work done on the item. This field will be useful for summary reporting and analysis only if the entries are standardized! Standardization has been facilitated by including a list of common *Repairs* in the DEVICE record, which is displayed whenever a Maintenance entry is made. Standard repairs can be included by checking the appropriate box on the entry screen.

— Cmfix is the latest occurrence of Repair.

- Parts is a 22-character field, divided into a 16-character Part and a 5-character CD, separated by a "@" - labelled "Part/CD" on the input screen. This field contains a list of the parts and component designations ("76LS100@U78") used in a repair or modification.
- Tech (*) is a 8-character field labelled "Technician" on the input screen. It contains the name of the technician who performed the maintenance.
- Fte.Hours is a 6-character field labelled "Total Manhours" on the input screen. It contains the total man-hours spent on the maintenance.
- Charge.Acct is a 10-character field labelled "Charge Acct" on the input screen. It contains the account number the maintenance is charged to.
- *M.Date.Start* is a 8-character field labelled "Date Started" on

the input screen. It contains the date the maintenance history began. This field is used to sort the history into proper sequence.

— Cmdate is the latest occurrence of M.Date.Start.

- M. Time.Start is a 8-character field labelled "Time Started" on the input screen. It contains the time the maintenance history began. This field is used to sort the history into proper sequence.
- M.User.Start is automatically generated by SPIRES to record the VM ID of the person creating the structure.
- *M.Date.Done* is a 8-character field labelled "Date Finished" on the input screen. It contains the date the maintenance history ended.
 - M. Time. Done is a 8-character field labelled "Time Finished"
 on the input screen. It contains the time the maintenance history ended.
- M.User.Done is automatically generated by SPIRES to record the VM ID of the person last updating the structure.
- *Maint. Times* is an automatically generated count of the number of entries in the maintenance history.
- *Rad* is a multiply occurring structure which records radiation exposure information. These fields are not currently used by DEPOT.
 - *Rad.Date* is the date of the reading.
 - *Neutrons* is the neutron exposure reading.
 - Gamma is the gamma ray exposure reading.
- *I.Date.Add* is automatically generated by SPIRES to record the date the record was created.
- *I.Time.Add* is automatically generated by SPIRES to record the time the record was created.

- *I.User.Add* is automatically generated by SPIRES to record the VM ID of the person creating the record.
- *I.Date.Upd* is automatically generated by SPIRES to record the date the record was last updated.
- *I. Time. Upd* is automatically generated by SPIRES to record the time the record was last updated.
- *I. User. Upd* is automatically generated by SPIRES to record the VM ID of the person last updating the record.
- Devicecode is the concatenated Maker.Id, Model, Rev which links the IN-VENTORY record to the DEVICE record.
- Fullname (V) is the full name of the device, from the DEVICE record.
- Description (V) is the description of the device, from the DEVICE record.

9.1 \otimes DEPOT INVENTORY FUNCTIONALITY

This section describes how various elements in the subfile are actually used in application. In particular, the Location History and Component Description fields have been put to uses which are not immediately obvious from an elementby-element inspection of the subfile.

9.1.1 \bigotimes Location History

This structure provides a continuous history of the state and location of all items. This information can be very useful for maintenance purposes; it is obviously important for being able to locate the item; it is **critical** for items which are used in the SLC control system. See Reference [4] for a description of the formal naming conventions for physical locations at SLAC.

<u>Location IDs:</u>

The Loc. Id can have two parts, separated by "-": the ID of the parent, and a component designation; e.g. for a board located in slot 15 of a CAMAC crate whose ID is 15098765: "15098765-S15".

The use of the *ID* of another device to specify location provides a number of powerful tools:

- 1. Data validation the Loc.ID must be the ID of an existing record in the database.
- 2. Data consistency *State* and *Location* are consistent for all co-located items, since this information is copied from the "parent" to the device which points to it.
- 3. Minimal data entry when a "parent's" State or Location changes, the new data is automatically copied to all the records which point to it.
 (e.g. If a MULTIBUS crate is moved to a new location, all of the boards in the crate and all of the subassemblies on the boards are automatically updated.)
- 4. Structured reporting formats are available which allow the simple display of all of the items in a parent child grandchild relationship. (e.g. In the MULTIBUS example, one need only FIND the crate or one of the boards to display the complete relationship between the crate, the boards, and all of the subassemblies.)
- 5. Crate profiles the Loc.ID is a critical component of the Crate Profiles, described in Subsection 9.1.3, below.

"Logical" system records:

It is possible for entries in this database to refer to logical entities, rather than real, ID'd devices. For instance: one of the CAMAC crates controlling the Klystrons and BPMs in sector 14 of the Linac is referred to as LI14/CR02, regardless of the specific piece of hardware performing that job at any given time. A record in DEPOT INVENTORY has been created, with an ID of "LI14/CR02", to record information which is independent of any specific crate (e.g. ID = 16001001) which may have been located at LI14/CR02 on a given date. In particular, the physical location of LI14/CR02 is recorded in this record. The location histories of the CAMAC crates which have served at this location, show a physical location of "LI14/CR02", since that nomenclature is understood and significant most of the time. In addition, the "LI14/CR02" record describes the crate, lists the CAMAC modules (in the Component structure – see Subsection 9.1.3) which it is supposed to contain, and lists any maintenance Procedures which need to be performed on the Control System crate.

 $9.1.2 \otimes Maintenance History$

This structure should give a continuous history of the maintenance performed on each item, including Repairs, Inspections, Calibrations, Certifications, Preventive Maintenance, etc.

Consistent terminology is required in these entries if performance or failure analysis is to be done. Consistent data entry is aided by use of the Maintenance information structure in the *DEVICE* record: lists of common symptoms and repairs can be entered, by Maintenance Type, for each device. The lists are displayed at data entry time, and the terms can be included by checking the appropriate boxes.

9.1.3 \otimes Component Description – Crate Profiles

The *CD.Str* has been utilized to hold the functional crate profile descriptions for the Control System CAMAC crates. A "logical" system record has been created for each Control System crate (whose *ID* is the name of the crate: "LI06/CR04", "DR12/CR03", "FB29/CR01", etc).

 The CDs in the CD.Str are the CAMAC slots: "S01" through "S25". This data is stored in the CD field of the structure. 2. The Nickname of the device which should be in the slot. For multislot modules, the correct slot corresponds to the Active Slot element in the DEPOT DEVICE record. The Nickname may be truncated if multiple devices are allowable; e.g. "BPM*" for "BPM605", "BPM605-A", "BPM972", or "BPM972-A". This data is stored in the Part. Type field of the structure.

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The programming which supports this application links to the DEPOT DEVICE subfile to extract the Width information, and automatically determines if multiple slots are occupied by the device. This is indicated in the Nickname field of the other slots.

- 3. *Reserved* indicates if the slot is "reserved" for future use, rather than currently occupied. This data is stored in the *Sa.Id* field of the structure.
- 4. System holds any desired system description information. This data is stored in the FW.Index field of the structure.

The Crate Profile, along with the actual inventory of devices in the crate, can be displayed from VM, from the MCC/SLC VAX, or from within DE-POT. (The display programs rely on the *Loc.Id* field to relate the profile information to the actual inventory information).

The structure could readily be used for Multibus and Fastbus crates, detector assemblies, etc.

$10. \otimes \text{DEPOT MAKER Subfile}$

The DEPOT MAKER subfile contains a list of the recognized SLAC vendor names, including a variety of aliases. Each vendor has a unique number assigned; it is this number which is carried in the other DEPOT subfile records. This standardizes the form of vendor names and avoids the problems associated with data entered as, e.g. HP, H.P., H P, HEWLETT PACKARD, HEWLETT-PACKARD, etc, while allowing the user to enter the name in any recognized form.

This file, and DEPOT DEVICE and DEPOT INVENTORY, which are linked to it, are indexed such that all elements are combined as Maker: "FIND MAKER 013174", "FIND MAKER HP", or "FIND MAKER HEWLETT PACKARD" all access the same index and find the same record. The Offname element from DE-POT MAKER is used to display the Maker name "H.P." in all cases. This also applies to creating DEVICE and INVENTORY records – whichever form of the name is entered, it will be resolved to the standard form.

Note that because of this flexibility, Maker names will not always be recognized as unique: "DIGITAL" points to "Digital Equipment Corp", "Digital Pathways, Inc", and "Digital Research". When creating records, this leads to a multiple choice screen to uniquely define the Maker; however, when finding records, the result will include records for all three makers.

In addition, while *Alias* is never seen by the user (except when entered on the New Maker screen), it may cause some confusion when an *Alias* is defined for a *Maker*, but the *Alias* is not part of the *Maker* name. For example, "FIND MAKER LABS" will list "E-H Electronics" in the result because it has an *Alias* of "E.H. Research Labs".

The DEPOT MAKER subfile is maintained by the Data Base Administrator, but anyone creating DEPOT DEVICE records may make a temporary entry to allow the device record entry to proceed unhindered.

• ID (*) is a 6-character field – labelled "Maker ID" on the input screen.

It contains an automatically-assigned code for the Maker. This code is referenced by the *DEVICE* and *INVENTORY* records.

- Name (*) [MAKER, MAKERNAME] is a 54-character field labelled "Full Name" on the input screen – containing the full, official corporate name of the Maker.
- Alt (*) [ALT.NAME] is a 54-character field labelled "Alias" on the input screen containing alternate forms of the Maker name, e.g. "IBM", "I B M", "I.B.M.", "I. B. M.", etc. The different aliases are separated by a backslash ("\").
- Offname (*) [INTERNAL.NAME] is a 28-character field labelled "DE-POT Name" on the input screen - containing the form of the Maker name that is displayed on reports and the Prism screens for the DEVICE and INVENTORY subfiles.
- Comment is a 54-character field labelled "Comment" on the input screen - which may contains any relevant comments about the Maker, including the kinds of products available.
- Add.Date and Add.Userid are automatically generated by SPIRES to record the date and user's VM ID when the record is created.
- Upd.Date and Upd.Userid are automatically generated by SPIRES to record the date and user's VM ID when the record is last updated.

11. \otimes DEPOT TABLE Subfile

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The DEPOT TABLE subfile is maintained by the Data Base Administrator. It contains the valid entries for Mg (maintenance group), Proc. Type (procedure type), M. Type (maintenance type), State and the user ids of those individuals allowed by enter or update DEPOT INVENTORY records for a particular Maintenance Group (Mg).

Additional valid entries for these fields may be defined by contacting the DBA.

IV. Creating & Updating Records

12. Introduction to Data Entry

These chapters discuss the various aspects of entering and updating records in the various subfiles of the DEPOT database, using the full-screen interactive facilities of the Prism interface on VM. An EXEC has been provided to simplify calling SPIRES/Prism and selecting the DEPOT subfiles. You must have access to the DEPOT 191 disk to use this EXEC: after logging on, type "GIME DEPOT". You may place this command in your PROFILE EXEC if you use DEPOT regularly. The syntax of the DEPOT command is described in Chapters 13 & 14.

12.1 RESTRICTIONS ON DATA ENTRY

Creating and updating records in the DEPOT databases is restricted on three levels:

 Write access to the various subfiles (INVENTORY, DEVICE, TABLE, MAKER) is granted only to selected users (VM IDs). The different subfiles have separate access lists, so that write access to the INVENTORY subfile does not automatically imply write access to the DEVICE or TABLE subfile.

The persons selected for write access to the database subfiles should be thoroughly familiar with the operation of the database programs and the data to be entered.

2. Write access to records in the *INVENTORY* subfile is controlled by the *Maintenance Group* element. VM IDs are given write access only to records with a specific Maintenance Group. This prevents different groups from updating other groups' records by mistake.

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3. The acceptable values for various elements in the INVENTORY subfile are limited: Nickname must exist in the DEVICE subfile; Maintenance Group, State, Maintenance Type, and Procedure Type must exist in the TABLE subfile; Location ID must be a valid entry in the INVENTORY subfile; Dates, Cost, and Procurement ID must be in the correct form, etc.

12.2 PRISM ENTRY FORMS

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Interactive data entry through the Prism interface is controlled by *Entry Forms:* combinations of full-screen displays and SPIRES programs that control which elements of the database are displayed and determine how input data is processed. An Entry Form **must** be set in order to modify a database record. Access to Entry Forms is restricted by VM ID in some subfiles.

Each subfile has its own associated Entry Forms, since each subfile contains - a unique list of elements whose processing requirements differ from each other. While in Prism, the Entry Form can be set by typing the "ENTRY [name]" command. Typing "ENTRY" while a subfile is selected in Prism will display a list of the Entry Forms available for your use with that subfile. Note that the *DE*-*POT INVENTORY* Entry Forms are available to all users for display of records, but that an attempt to update a record will be rejected unless the user has been granted write access to that record.

Entry forms can be very useful in streamlining data entry, since they can be designed to restrict a user's view of the record to only those elements relevant to a particular update; *e.g.* when updating *Location History*, the maintenance history, procedures, etc. can be hidden from view. The Entry Forms available for each subfile are described in the following chapters.

12.3 PRISM ON-LINE HELP

Data entered (or not entered) in a record may occasionally be rejected by DEPOT. In such cases, an error code will be displayed next to the field where the error was detected. An explanation of the error code can be displayed by typing "HELP code" on the command line (where code is the two-character error code shown on the screen).

In addition, Help files are available for most of the elements in the record. Type "HELP element" (where element is the name of the element; *e.g.* Nickname, Class, Drawing) to display an explanation of the element, typical values, and uses.

Help is also available for the Prism commands. Type "HELP command" to get help for any command; *e.g.* "HELP SORT" for an explanation of the SORT command.

13. DEPOT DEVICE Records

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There are only two Entry Forms for the *DEVICE* subfile: BASIC for creating and updating records, and CLONE for creating new records using an existing record as a template.

The DEPOT EXEC can be used to enter Prism with the DEVICE subfile selected, but the BASIC Entry Form is always set. From CMS type "DEPOT DE-VICE [nickname]" - nickname is optional, if it is given Prism will automatically select the record. If no nickname is entered, the following screen will be displayed:

DE	POT Device	Entry F	orm: BASIC	10/01/90 10:05
		*	*	
	-	BASIC	FORM	
		*	*	
a an anna 1986 is an	This BASIC form i	s used for initial	l record creation.	Use it to add
	new device record	s to the database		
	To begin data ent	ry issue the CREA	TE command or press	s F6 function key.
,	_	-	backup screens. h	_
	•		er SEND on the comm	
-E	ntry form BASIC is	now set		
Тy	pe: CREATE to add	a new record.	ENTRY to change er	try forms.
	FIND to search	this file.		
YO	UR RESPONSE:			
f 1	=Help f2=Find f3=S	elect f4=Report	f6=Create	f8=Entry
Al	so: Setup, Commar	d, Suggest, Lock,	Pause, End	

13.1 CREATING NEW DEVICE RECORDS

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To create new *DEVICE* records: from CMS type "DEPOT DEVICE"; if you are already in Prism with the *DEVICE* subfile selected, type "ENTRY BASIC". To begin creating a new record hit PF6 or type "CREATE" on the command line.

The information in the *DEVICE* record is organized on five separate screens:

The Item Information screen contains the basic identifying information for the device, as well as menu selections for accessing the *Drawing*, *Procedure* and *Maintenance Info* screens.

Nickname must be entered for each device. It must be unique.

Maker, Model, and Rev-Var must be entered for each device. The combination must be unique.

DEPOT Device	Entry Form: B	ASIC	10/01/90 10:01
Item Information	n		Record 4 of 6
			Remove?
Maker :			
Model :	Rev-	Var:	Class:
Nick :		Generic:	
Full Name:			
Description:			
-			
DI	RAWING PKG NUMBER		
1			
2			
з			
4			
Mark to revie	ew/modify Procedures:	-	
Mark to revie	w/modify Maintenance Data:	-	
-Form continues	on the next page		
Type: OK below (to continue to next page.	UNDO to dia	scard changes to page.
CANCEL to	cancel transaction.		
YOUR RESPONSE:			
f1=Help	f3=Cancel f4=Undo		f8=0K

If *Maker* does not point to a unique entry in the *MAKER* subfile, a menu will be displayed for selecting the correct *Maker*. For instance, if *Maker* is entered as Digital:

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=====				=====		
DEPOT	Device		Entry	Form:	BASIC	10/01/90 10:04
Select	t Maker					
	You did a	not enter a uniq	ue mak	er nam	ne. Please	e enter the number
	of the c	orrect maker fro	m this	list,	, or enter	the PREVIOUS
	command '	to correct your	entry	on the	e previous	screen.
		Maker	number		:	
	1 Digit	al Equipment Cor	Ъ		2 Digi	ital Pathways
	3 Digit	al Research				
Type:	SEND to	complete this to	cansac [.]	tion.	CANCEL	to cancel transaction.
	PREVIOUS	to return to pr	ior pa	ge.	UNDO to	discard changes to page.
 YOUR H	RESPONSE:					
 f1=He	lp	f3=Cancel f4=Ur	do f5=	Send	f7=P	Previous

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If *Maker* is not found in the *MAKER* subfile, a separate screen will be displayed for entering the necessary information to create a new entry in the *MAKER* subfile. For instance, if *Maker* is entered as XYZ Corp:

====				
DEPO	T Device	Entry Form: H	BASIC	10/01/90 10:04
Make	r not found			
	The maker na	ne you selected does not	exist in the fil	le. If you
	entered the	name incorrectly, use the	PREVIOUS comma	nd to
	correct your	entry on the previous so	reen.	
	Alternativel	y, you may enter the make	er as a new entry	v in the
		Add any alias names, whi		
		•		searcutuk
	here and use	the SEND command to cont	inue.	
	Full Name	XYZ Corp		
	Alias(s)			
	DEPOT Name	:		
	•	name and phone number wh	•	eached:
a an sha				
Туре	: SEND to comp	lete this transaction.	CANCEL to can	cel transaction.
	PREVIOUS to :	return to prior page.	UNDO to discar	d changes to page.
YOUR	RESPONSE:			
f1=H	elp f3=	Cancel f4=Undo f5=Send	f7=Previous	3

Full Name is the complete corporate name. Alias is for any common abbreviations (e.g. "IBM" or "I.B.M." for International Business Machines). Multiple Aliases can be separated by backslashes ("\"). DEPOT Name is for the form of the name normally displayed on DEPOT screens and reports; this should be relatively brief, to conserve screen space, but long enough to be recognizable and unique.

When creating a new *DEVICE* record, the Maker name should be entered in the briefest recognizable form – aliases are recognized, but it is possible to enter the name in a way that will not be recognized, even though the maker exists in *DEPOT MAKER*, *e.g.* by spelling out "Incorporated". This can lead to unnecessary and undesirable duplications in *DEPOT MAKER*. The **Device Characteristics** screen contains information about the size and electrical characteristics of the device.

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For CAMAC modules used in SLC, the *Active Slot* and *Width* and W.Units ("n SLOT") must be entered. It is highly recommended that this information be entered for everything.

DEPOT Device	Entry Form: BAS	IC 10/01/90 10:01
Device Characteristic	S	Record 4 of 6
Maker : SLAC		<u> </u>
Model : 123-603	Rev-Var: E.	Class: CAMAC
Nick : SAM-E,SLAC	Generic	:: SAM
Active Position (a	s Counted from the RIGHT	of a module): 1
Width: 1 W.	Units: SLOT_ Heigh	t: H.Units:
+12V @: Amps	+24V @:04 Amps	+5V @: Amps
-12V @; Amps	-24V @:04 Amps	-5.2V @: Amps
+6V @:90 Amps	+15V @: Amps	-2V @: Amps
-6V Q: Amps	-15V Q: Amps	+28V @: Amps
110V @:	Amps 20	D8V @: Атръ
Aux1		Aux3
Aux4	Aux5	Aux6
-Form continues on th	e next page	
Type: OK below to cor	tinue to next page.	CANCEL to cancel transaction.
SEND to complet	e this transaction.	UNDO to discard changes to page.
YOUR RESPONSE:		
f1=Help f3=Ca	ncel f4=Undo f5=Send	f8=0K

The Drawing screen contains component information for the device (or crate profiles – see section 9.1.3). It is not displayed unless a Drawing Pkg Number is entered on the first screen.

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DEPOT Devic	e	Entry Form: H	BASIC	10/0	1/90 10:01
Drawing				Reco	rd 4 of 6
Maker: SLAC					
Model: 123-	603	Rev:]	Ε		
Drawing	no: DL-123-603-	00-R4	_ To remove,	enter '	R': _
CD	Part Type	SA Туре	C	urrent	0 k
1					
FwIndex					
2	******				
FwIndex					
3	±				
4					
FwIndex					
5					
					
More? _					
-Form conti	nues on the nex	t page			
Type: OK be	low to continue	to next page.	PREVIOUS to ret	urn to j	prior page.
SEND 1	to complete thi	s transaction.	CANCEL to cance	l trans	action.
YOUR RESPON	SE:				
f1=Help	f3=Cancel f	A=Undo f5=9and	f7=Previous	f8=0 T	

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The **Procedure Entry** screen contains information about any periodic procedures which are defined for the device. It is not displayed unless *Mark to review*... *procs* is checked on the first screen. There may be an infinite number of Procedure Entry screens: new ones will be displayed until "OK", PF8, "SEND", or PF5 is entered for a screen with no data entry.

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DEPOT Device		Entry Form: 1	BASIC	10/01/90 10:01
Procedure Ent	ry			Record 4 of 6
Maker: SLAC_	· • · · · · · · · · · · · · · · · · · ·		·	
Model: 123-60)3	Rev-V	ar: E	Delete proc?:_
Procedur	e#1 T	ype:	Interval/Days:	
Name:				
Desc:				
. 				
 Ref:				
Ref:				
-Form continu	les on the ne	xt page		
-Form continu Type: OK belo	les on the ne	xt page e to next page.	PREVIOUS to retu	rn to prior page
-Form continu Type: OK belo	nes on the ne We to continu complete th:	xt page e to next page.		rn to prior page

The Maintenance Info screen is for listing common terms for standardized entry of *Symptoms* and *Repairs* in the Maintenance History of the individual Inventory records. It is not displayed unless *Mark to review...Maintenance Data* is checked on the first screen. There may be an infinite number of Maintenance Info screens: new ones will be displayed until "OK", PF8, "SEND", or PF5 is entered for a screen with no data entry.

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DEPOT Devic	•	Entry Form:	BASIC	10/01/90 10:02
Maintenance	Info			Record 4 of 6
Maker: SLAC.				
Model: 123- 0	503	Rev:	E	
Nickname: SA	M-E,SLAC		Mainten	ance Type: REPAIR
	>>>>> Enter Al	ll Applicable SY	MPTOMS (o:	r TYPES) <<<<<
NTF		FAILS_VISUAL_I	NSPECT	FAILS_MOST_TESTS
FAILS_ALI	TESTS	ADC_ERROR		BAD_CHANNELS
FAILS_RAI	GE_TEST	MODIFY		WO_OK_LIGHT
NO_RESPON	ISE	READBACK_ERROR	s	
		licable REPAIRS		
				CLEANED
		SHORT_		
•				
-Form contin	ues on the next	t page		
Type: OK bel	low to continue	to next page.	PREVIOU	JS to return to prior page.
SEND t	o complete this	transaction.	CANCEL	to cancel transaction.
YOUR RESPON	SE :			
		=Undo f5=Send	f7=P	

When all the device information has been entered, hit PF5 or type "SEND" on the command line to file the record in the database.

13.1.1 "CLONING" NEW DEVICE RECORDS

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Some types of devices will require multiple *DEVICE* records which vary only in minor details. To simplify entering these records, the CLONE Entry Form permits creation of a new record using an *existing* record as a template. While in Prism with the *DEVICE* subfile selected, type "ENTRY CLONE".

Use the FIND command (see Chapter 15 for a complete explanation) to access the existing record to be used as the template. The existing record will appear with all of its information filled in – you only need to change the information that differs. You must change Nickname and (Maker or Model or Rev-Var) to make the record unique.

13.2 UPDATING EXISTING DEVICE RECORDS

Updating existing device records works exactly the same as creating new ones, with the following exceptions:

- Maker, Model, and Rev-Var may not be changed. You must use ENTRY CLONE to create a new device record with the changed Maker/Model/Rev-Var and then remove the old record. The associated INVENTORY records must be modified to point to the new DE-VICE record. Until the INVENTORY records are updated, all the virtual fields and their indexes which depend on the DEVICE record will be blank.
- 2. Existing *Drawing* information is accessed by marking the modify box next to the drawing number on the first screen. The Drawing Package information can be deleted by checking the "To remove..." box on the drawing screen.

14. DEPOT INVENTORY Records

14.1 CREATING NEW INVENTORY RECORDS

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Creating new *INVENTORY* records must be done in the Basic Entry Form. From CMS type "DEPOT BASIC"; if you are already in DEPOT, type "SEL DE-POT INV", then type "ENTRY BASIC". You will then see the DEPOT "Welcome" screen:

DEPOT Inventory	Entry Form: BASIC	10/02/90 09:39
* * Mo	dify BASIC DEPOT Information Fe	orm * *
This form will allow	you to add new or modify exist	ting basic item
information. If mod	ifying an existing record issu	e SEARCH or FIND to
identify the record	(or set of records) you wish to	o modify. Then issue the
command GET nnn, whe	re nnn is the search result nu	nber of the item you want.
To add a new basic i	nformation record issue the CRI	EATE command.
· · · ·		
	e filling in the form, issue the	
-	ssistance with this applicatio	
P	atrick Clancey, CLANCEY, x2339	.
*		*
-Entry form BASIC is no	w set	
Type: CREATE to add a n	ew record. ENTRY to change	entry forms.
FIND to search th	is file.	
YOUR RESPONSE:		
f1=Help f2=Find f3=Sele	ect f4=Report f6=Create	f8=Entry
	Suggest, Lock, Pause, End	

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To begin creating a new record hit **PF6** or type "CREATE" on the command line. The *Item Information* screen will be displayed:

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DEPOT Inventory Entry Form: BASIC 10/02/90 09:41 Item Information Record 18 of 277 Remove? ___ ID : 16011015_____ Serial : 165_____ Nick : SAM-E, SLAC_____ Drawing: . Maker : _ Model : __ Rev-Var ____ Class: _____ Generic: _ ____ Procurement ID (P0,W0,Etc): _____ Cost: ___ Date Entered Service: 05/03/84 Account: _____ Maintenance Group: DMG_____ Owning Group: SLC_____ Comment: LEP ID - 16080_ -Form continues on the next page Type: OK below to continue to next page. CANCEL to cancel transaction. UNDO to discard changes to page. SEND to complete this transaction. YOUR RESPONSE: f1=Help f3=Cancel f4=Undo f5=Send f8=0K

ID (the SLAC-assigned ID of the item), Serial Number and Maintenance Group must be entered for every record. ID must be unique across all records. Serial Number must be unique for any given Make and Model. If the device does not have a serial number, or the serial number is not unique, the ID may be used as a serial number.

Each record must be linked to a template record in the DEVICE subfile; this can be done by entering the Nickname or the Maker, Model, and Rev-Var. If you are not sure of the complete *Nickname*, it can be truncated with an "*" - DEPOT will present a multiple-choice list if the *Nickname* is not unique in the *DEVICE* subfile; *e.g.* if *Nickname* is entered as "SAM*:

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DEPOT	Inventory	Entry Form: BASIC	10/02/90 11:33
Pick N:	ickname		
Y	ou did not enter a	unique nickname. Please ente	r the number of
. t	he correct nickname	from this list, or enter the	PREVIOUS
c	ommand to correct y	our entry on the previous scr	een.
	Ni	ckname number : 4	
. 1	SAM TESTER	2 SAM-E,DS	P
з	SAM-E, KINETICS	4 SAM-E,S	LAC
5	SAM-E, TRANSIAC	6 SAMPLER	
-Form (continues on the net	ct page	
Туре: (K below to continu	e to next page. CANCEL to	cancel transaction.
F	REVIOUS to return t	o prior page. UNDO to di	scard changes to page.
YOUR R	SPONSE:		
f1=Hel	o f3=Cancel	f4=Undo f7=Previ	ous f8=0K

Once the correct DEVICE record has been identified, DEPOT will extract Nickname, Maker, Model, Rev-Var, Class, Generic and Drawing for the IN-VENTORY record. Typing "OK" or PF8 will signal DEPOT to process the first screen and display the second. The second screen contains fields to indicate that the information on the item has been verified (preferably by physical inspection) and a menu to access other parts of the record. If the *DEVICE* record has multiple *Drawing Numbers*, they will also be displayed – select the one specific to the item being entered.

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DEPOT Inventory	Entry Form: BASIC	10/02/90 09:41
Menu		Record 18 of 277
ID : 16011015	Serial	: 165
Nick : SAM-E,SLAC	Drawing: DL-12	3-603-00-R4
Maker : SLAC		3-603
Rev-Var E Cla	ss: CAMAC Generic:	SAM
Mark to create/ Revie	w/ Modify PM, CALIB, CERT Proce	dures: _
Mark to create/ Revie	w/ Modify STATE & LOCATION Hist	ory:
- Mark to create/ Revie	w/ Modify MAINTENANCE History:	
Mark to CREATE/ Revie	w/ Modify DRAWING/COMPONENT Inf	ormation:
n de la companya de la compa		
Data Verified: Yes	Userid : JAT	
-Form continues on the n	next page	
Type: OK below to contir	nue to next page. PREVIOUS to	o return to prior page.
SEND to complete t	his transaction. CANCEL to c	ancel transaction.
YOUR RESPONSE:		
f1=Help f3=Cancel	f4=Undo f5=Send f7=Previ	ious f8=0K

If additional information (Procedures, Location History, Maintenance History, Component Information) is to be entered, mark the appropriate menu choices and type "OK" or PF8 to proceed. The data entry for those sections of the record is discussed in the next section (*Updating Existing INVENTORY Records*). To complete the transaction, type "SEND" or PF5 to file the record in the database.

14.2 UPDATING EXISTING INVENTORY RECORDS

There are several Entry Forms available for the *INVENTORY* subfile. The DEPOT EXEC provides an easy mechanism for setting the Entry Form when starting the DEPOT application.

To access the whole record:

DEPOT BASIC id

To update only the Location History:

DEPOT LOC id

To modify an existing Location History entry: DEPOT MODLOC id

To add a new Maintenance History:

DEPOT ADDMAINT id

To modify an existing Maintenance History entry: DEPOT MODMAINT id

To modify the Functional Profile:

DEPOT PROFILE id

To change a record ID:

DEPOT CHANGEID id

In all cases, id is optional; if it is provided, the record will be accessed automatically.

If you are already in Prism with the *INVENTORY* subfile selected, you can set any of the Entry Forms by typing "ENTRY name", where name is any one of the six listed above. "HELP ENTRY FORMS" will list the available choices.

Accessing a record for data entry is a two-step process in Prism: first the record must be found using the "FIND" command (see Chapter 15 for a complete explanation), and then brought into the Entry Form using the "GET" command. DEPOT has been customized to automatically perform the GET if only one record results from the FIND command and an Entry Form is selected. This will be the case if you are updating individual records using "FIND ID nnnnnn". Otherwise, if a FIND command returns more than one record, they will be listed in the BRIEF display format: one per line and numbered 1-n (see Chapter 16 for an example); type "GET n" to bring the *nth* record of the search result into the Entry Form for updating.

14.2.1 UPDATING THE LOCATION HISTORY

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If you are only updating *Location History* information, you may wish to ignore the rest of the record by using the LOCATION Entry Form: enter the DE-POT application by typing "DEPOT LOC [id]", or type "ENTRY LOC" while in Prism. Otherwise choose the "...Modify STATE & LOCATION History" option on the second screen of ENTRY BASIC to access the Location History screen:

DEPOT Inventory	Entry Form: BASIC	10/02/90 09:42
ocation Info		Record 18 of 277
ID : 16011015	Serial	: 165
Nick : SAM-E,SLAC	Drawing: DL-12	3-603-00-R4
Maker : SLAC	Model : 12	3-603
	: CAMAC Generic:	
	is Located IN a Module, Crat	e, Rack, etc):
State :	Location ID:	
Location:	In: 10/02/90 at 09	942 By:
3 State : IN USE	Location ID: 14132-80	5
Location: CA03/CR08	In: 09/04/90 at 14	47 Out: 10/02/90
2 State : SPARE	Location ID: 0-	
Location: B005	In: 03/19/90 at 07:	29 Dut: 09/04/90
1 State : MAINT	Location ID: 0-	
Location: B034	In: 03/07/90 at 093	39 Out: 03/19/90
More? _		
Using Group: SLC Exp	p: SLC Name: SLC	_ Phone:
-Form continues on the nex	t page	
Type: OK below to continue	to next page. PREVIOUS t	o return to prior page
SEND to complete this	s transaction. CANCEL to c	cancel transaction.
YOUR RESPONSE:		

The Location History entry consists of:

1. State and Location or Location ID, which will copy State and Location from the parent record.

If Location ID is not used, State and Location must both must be entered, if Location ID is given, State and Location are ignored.

Values of *State* are restricted to entries in the *TABLE* subfile, *e.g.* MAINT, SPARE, IN USE, etc.

- 2. In (date) and at (time) the item entered this State and Location this defaults to the current date and time, but may be changed by typing over the data.
- 3. By the individual responsible for placing it in this State and Location.
- 4. Use-Gr, Exp, Name, and Phone are provided for compatibility with the old LEP database; their use is optional.

14.2.2 MODIFYING THE LOCATION HISTORY

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A special Entry Form is provided for correcting errors in the Location History entries: "ENTRY MODLOC". You may enter the DEPOT application by typing "DEPOT MODLOC [id]", or type "ENTRY MODLOC" while in Prism. This Entry Form allows you to delete entries or modify the information in an entry:

DEPOT Inventory Entry F	Form: MODLOC	10/02/90 12:04
Location Info		Record 1 of 1
ID : 16011015	Serial : 165	
Nick : SAM-E,SLAC	Drawing: DL-123-603-00	D-R4
Maker : SLAC	Model : 123-603	
Rev-Var E Class: CAMAC	Generic: SAM	
Delete? (Mark this column to delete		
_ 3 State : IN USE		
Location: CA03/CR08		-
_ 2 State : SPARE		
Location: B005		2
1 State : MAINT		
Location: B034	In: 03/07/90 at 0939	By: JAT
_ State :	Location ID:	
Location:	In: at	By:
More? _		
Using Group: SLC Exp: SLC	Name: SLC Phon	e:
-Form continues on the next page		
Type: OK below to continue to next p	age. PREVIOUS to return	to prior page.
SEND to complete this transact	ion. CANCEL to cancel t	ransaction.
YOUR RESPONSE:		
f1=Help f3=Cancel f4=Undo f5=	Send f7=Previous f8=	0 K

WARNING: this Entry Form does NOT provide for propagating

location information! Because a parent device may no longer be at the same location it occupied at the time the record being modified was located with it, no reasonable assumptions can be made about *State* and *Location* when changing the *Location.Id*.

1. If you change a *Location.Id*, the *State* and *Location* will not be automatically changed. 2. Changing the location of a "parent" device will not automatically update the location of any "daughter" devices. *e.g.* if the location of a CAMAC crate has been entered incorrectly (using the BASIC or LOCATION Entry Forms, which automatically update the *State* and *Location* of all the modules located in the crate), and the information is corrected in the crate record, the individual module records must be corrected separately.

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14.2.3 Updating the Maintenance History

If you are only updating *Maintenance History* information, you may wish to ignore the rest of the record by using the ADDMAINT or MODMAINT Entry Forms: enter the DEPOT application by typing "DEPOT ADDMAINT [id]", or "DEPOT MODMAINT [id]"; or type "ENTRY ADDMAINT" or "ENTRY MODMAINT" while in Prism, with the *INVENTORY* subfile selected. Otherwise choose the "... Modify MAINTENANCE History" option on the second screen of ENTRY BASIC.

ADDMAINT and MODMAINT differ only in that MODMAINT first presents a menu screen which allows you to choose to add a new maintenance record or select an existing maintenance record to modify:

DEPOT Inventory	Entry Form: BASIC	10/02/90 09:42
Maint Select		Record 18 of 277
ID : 16011015	s	erial : 165
Nick : SAM-E,SL	AC Drawing:	DL-123-603-00-R4
Maker : SLAC	Model	: 123-603
Rev-Var E	Class: CAMAC Gen	eric: SAM
Start		End
Mark Date Type	e Symptom or Procedure	Date
2 Mar	k Here To add new maintenance	record
1 _ 03/11/90 REP. 	AIR 1) FAILS ALL TESTS. 2)	
-Form continues on	the next page	
Type: OK below to c	ontinue to next page. PREVI	OUS to return to prior page
SEND to comple	ete this transaction. CANCE	L to cancel transaction.
YOUR RESPONSE:		

Otherwise the following points apply to both Entry Forms.

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The first Maintenance screen identifies the *type* of Maintenance being recorded – this value is restricted by the entries in the *TABLE* subfile (REPAIR, MOD, CERT, CONFIG, INSPECT, etc). It also contains the dates and times and accounting information for the maintenance work. The correct dates are important for performing maintenance analysis on the data. If the *Maintenance Type* is REPAIR, and it is appropriate, the *Reported Problem* and *CATER Numbers* can be entered on this screen:

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DEPOT Inventory	Entry Form: BASIC	10/02/90 09:43
Mod Maint (Type)		Record 18 of 277
ID : 16011015	Serial	: 165
Nick : SAM-E,SLAC_	Drawing: DL-12	23-603-00-R4
Maker : SLAC	Model : 12	3-603
Rev-Var E C	lass: CAMAC Generic:	SAM
Maintenance Type: R Date Started: 03/11	EPAIR /90	ime Finished: 0000
- Total ManHours: 6.0	0 Technician: BMB Cha	rge Acct: NA
(IF "MAINTENANCE	TYPE" = "REPAIR", enter the follo	wing:)
Reported Problem: E	AD READ BACKS	
(CATER Numbers) : N	A	
	nues on next page, type OK (PF8)	

YOUR RESPONSE:

f1=Help f3=Cancel f4=Undo f5=Send f7=Previous f8=OK

SEND to complete this transaction.

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CANCEL to cancel transaction.

The second Maintenance screen is for entering the symptoms that the technician encounters, or a description of the work to be done. The top of the screen lists any common symptoms that have been defined in the *DEVICE* record for the appropriate Maintenance Type. There is also an area for free-form data entry for any symptom not included in the list:

DEPOT Inventory	Entry Form: BASIC	10/02/90 09:4
Nod Maint (REPAIR)		Record 18 of 277
ID : 16011015	Se	erial : 165
Nick : SAM-E,SLAC	Drawing:	DL-123-603-00-R4
Maker : SLAC	Model	: 123-603
Rev-Var E Class:	CAMAC Gene	eric: SAM
Symptom: 1) DIRTY 2) FAI	_ MODIFY READBACK ERRORS ILS ALL TESTS 3) FAILS	NO OK LIGHT
-Form continues on the next Type: OK below to continue f PREVIOUS to return to	to next page. CANCE	L to cancel transaction. To discard changes to page.
YOUR RESPONSE:		
f1=Help f3=Cancel f4	=Undo +7-1	Provious f8=0K

Items from the menu may be selected by tabbing to the field and typing a number in the space in front of it. The character used to select menu items is concatenated with the text, allowing *Symptoms* to be numbered and related to *Repairs* – see the next screen.

The text of any selected menu item will be concatenated on the end of any free-form text entered after "Symptom:". It is possible to overflow the field, *i.e.* concatenated menu text may be longer than 201 characters; in which case, the whole text string is saved and indexed but will not show on this screen.

The example above shows the *Symptom* field **after** all the data has been entered. ("1) Dirty" was typed in, the other text was selected from the menu.

The third Maintenance screen is for entering the actual repairs or description of the work done on the item. The top of the screen lists any common repairs that have been defined in the *DEVICE* record for the appropriate Maintenance Type. There is also an area for free-form data entry for any repair not included in the list:

	Entry Form: BASIC	10/02/90 09:43
lod Maint (REPAIR)		Record 18 of 277
ID : 16011015	Serial	: 165
Nick : SAM-E,SLAC	Drawing: DL-12	3-603-00-R4
Maker : SLAC	Model : 12	3-603
Rev-Var E Cla	ss: CAMAC Generic:	SAM
•	E; ALSO, INSTALL CORRECT RESIST 0,C11 & C86 1) CLEANED	
Repair: 3) REPLACE C1		

f1=Help f3=Cancel f4=Undo f5=Send f7=Previous f8=OK

Items from the menu may be selected by tabbing to the field and typing a number in the space in front of it. The character used to select menu items is concatenated with the text, allowing *Repairs* to be numbered and related to *Symptoms* – see the previous screen.

The text of any selected menu item will be concatenated on the end of any free-form text entered after "Desc. of Repair:". It is possible to overflow the field, *i.e.* concatenated menu text may be longer than 201 characters; in which case, the whole text string is saved and indexed, but will not show on this screen.

The example above shows the *Repair* field **after** all the data has been entered. "1) CLEANED" was selected from the menu; all of the following text was typed in.

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For REPAIR, MOD, and CONFIG Maintenance Types, there is a fourth Maintenance screen for listing the parts and component designations of any parts which have been used in the repair:

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DEPOT Inventory	Entry Form: BASIC	10/02/90 09:44
Mod Maint (REPAIR)		Record 18 of 277
ID : 16011015_		Serial : 165
Nick : SAM-E,SLA	Drawin	g: DL-123-603-00-R4
Maker : SLAC	Мос	lel : 123-603
Rev-Var E	Class: CAMAC G	eneric: SAM
Part:	CD:	
Part: Z 80	CD: 5E	
Part:		
Part:		
Part:		
Part -	CD:	
· · · · · · · · · · · · · · · · · · ·		
-Form continues on t	ne next page	
-Form continues on t		WIGUS to return to prior page
-Form continues on t Type: OK below to con		
-Form continues on t Type: OK below to con	ntinue to next page. PRE	

14.2.4 \otimes Migrating Records From the LEP Database

DEPOT is a replacement for and extension of the old LEP database. When records are sought by ID in DEPOT and not found, the LEP database is automatically searched for that ID. If the record is found in LEP, it is displayed with the option of migrating it to the DEPOT database. At this time you also have the option of changing the ID (whenever possible, the old red and white LEP ID tags should be replaced by bar-coded ID tags):

DEPOT Inventory	Entr	y Form: BASIC	10/02/90 09:51
Selected search	types: ID		
The record vou	1 requested was not	found in the DEPOT	database. It has
-	-	database. Confirm t	
		ess OK (PF8) to add	2
	· · · · •		twe record
to DEPQT, or p	press CANCEL (PF3)	to abort.	
ID ::	13351		
	SLAC		
Model :	135-563		
Serial :	32		
You may c	hange the LEP Id of	13351 when it is mo	oved from LEP
> DEPOT	. If you would lik	te a new or differen	t record id then
indicate	here:		
New ID :			
-Enter OK (PF8)	to accept and add n	new record	
Type OK to cont:	inue search.		
Type CANCEL to a	cancel search.		
YOUR RESPONSE:			
f1=Help	f3=Cancel		f8=0 K

The *Make* and *Model* information in LEP is not always correct or consistent with the DEPOT *DEVICE* records, and *Rev-Var* is missing altogether. Therefor, many migrated records will need to have a *Nickname* supplied after migration. All records migrated from LEP must be carefully checked for accuracy.

14.3 \otimes Changing Record IDs

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f1=Help

f3=Cancel f4=Undo

The Record ID is the one piece of information in the *INVENTORY* records that cannot readily be modified. A special Entry Form has been provided for this purpose. Enter the DEPOT application by typing "DEPOT CHANGEID [id]", or type "ENTRY CHANGEID" while in Prism with the *INVENTORY* subfile selected.

To change a record's *ID*, FIND the record, supply the *Serial Number* (as a double check on accuracy), and enter the new *ID*:

DEPOT Inventory	Entry Form: CHANGEID	10/02/90 13:14
Which Record		Record 1 of 1
	2 m	
To change the ID of a	a existing DEPOT inventory r	ecord:
CAREFULLY enter the	e OLD ID, the Serial Number,	and the NEW ID,
and then type OK	(PF8)	
••••• OLD ID: 16011015	Serial Wumber:	
Form continu	es on next page, type OK (PF	78)
-Form continues on the	next page	
Type: OK below to cont CANCEL to cancel YOUR RESPONSE:	inue to next page. UNDO transaction.	to discard changes to page.

f8=0K

DEPOT Inventor	y Entry Form: CHA	NGEID 10/02/9	0 13:14
Verify Record	ID	Record 1	l of 1
OLD ID: 160	11015	Serial: 165	
Re-ent-	er the NEW Record Id, to veri:	f y :	
	NEW ID: 61011015		
Tyı	e "SEND" (PF5) to continue	-	
Type: SEND to	complete this transaction.	CANCEL to cancel transact	ion.
PREVIOUS	to return to prior page.	UNDO to discard changes to	page.
YOUR RESPONSE:			
f1=Help	f3=Cancel f4=Undo f5=Send	f7=Previous	

As a double check on accuracy, the new *ID* is prompted for a second time:

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After the record has been re-keyed, it will be displayed in ENTRY BASIC – be sure to type in the old *ID* in the *Comment* field for cross reference.

V. Searching & Reporting in Prism

The *techniques* described in this section for searching the DEPOT databases, displaying the results, and creating reports, apply to all Prism databases. The only differences are in the record *elements* defined for searching and reporting, the *displays* defined for the subfiles, and the *public reports* defined.

This discussion will focus on the DEPOT INVENTORY subfile using screen examples for the INVENTORY file; however, the **principles** apply to all DE-POT, indeed all Prism, subfiles.

15. The Prism FIND Command

Searching is accomplished by the "FIND" command. On-line help is available in Prism by typing "HELP FIND". The syntax of the command is: "FIND [index] [operator] [value]"

[index] is the name of an indexed element in the subfile.

Not all elements in the subfiles are indexed (*i.e.* accessible via the FIND command). To see a list of indexed elements, type "FIND" followed by a carriage return; Prism will list all of the indexed elements in the DEPOT database:

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DEPOT Invento	ry Entry Form: BASIC	10/02/90 09:51
Search type s	election for FIND	
Choose a type	of search by typing the name or nu	mber for each type of
information y	ou have, e.g. ID or 1	
TYPE OF SEARC	H DESCRIPTION	EXAMPLE
1. ID	Record ID	PC99999
2. NICKNAM	E Nickname of device type	BPM
3. MAKER	Maker name or number	DEC
4. MODEL	Model name or number	DLV11-J
5. REV-VAR		1
6. SERIAL		123456
7. GENERIC	Generic description of device t	уре ЅАМ
8. CLASS	Class of device type	CAMAC
9. CSTATE	Device state (CURRENT ONLY)	SERVICE
10. CURLOC	Location (CURRENT ONLY)	KG22-1143-S10
11. CLOCID	ID of parent device (CURRENT ON)	LY) PC99999
12. FCLOCID	Location-Slot -	LI23/CR01-S19
13. AKA.CLO	C Alternate Location (Current)	LI19,401
14. STATE	Service state (ALL HISTORY)	SPARES
15. LOCATIO	N Device location (ALL HISTORY)	KF02-RA21
16. LOC.ID	ID of parent device (ALL HISTOR	Y) PC99999
17. FULL.LO	C Full Location/with Slot	LI19/CR03-S15
18. AKA.LOC	Alternate Location Name	LI19,401
19. L.DATE	Date Installed	1/1/89
20. USE-GR	Using group	SLC
21. EXP	Experiment number	25
22. NAME	Users name	George Crane
23. M.TYPE	Repair Type	UPGRADE
24. SYMPTOM	Words from repair symptoms	SHORT
25. TECH	Maintenance technician	CLANCEY
26. DRAWING	Drawing number	SD-123-603-01-R2
-The menu of	search types continues on next page	; press RETURN to continue
	more search types below.	· -
	o cancel this search.	
YOUR RESPONSE		
f1=Help	f3=Cancel	
Also: Lock,		

Note that when the list fills more than one screen you must hit RE-TURN to see subsequent pages.

Element names can be abbreviated to their shortest unique length.

[operator] is a relational operator. Valid operators include "=", "~=", ">", ">=", "<", "<=", and "STRING". Blank is equivalent to "=" (the default). "STRING" provides a substring search, e.g. "FIND CLASS STRING AMA" would find records with CLASS=CAMAC, among others.

On-line help in Prism is available by typing "HELP RELATIONAL".

[value] is the value of the element to search for.

Values can be truncated with a "*" for wild card searches: "FIND CLASS CAM*" would find all records for class CAMAC or CAMERA, etc.

Compound, or Boolean, searches can be made: "FIND CLASS CAMAC AND CSTATE IN USE" would find all CAMAC equipment currently "IN USE". "FIND CURLOC LI12* OR CURLOC LI13*" would find all equipment currently located with the Micro and CAMAC crates associated with LI12 and LI13 (Linac sectors 12 and 13). The Boolean searches can be applied in successive commands: "FIND CLASS CAMAC" followed by "AND CSTATE IN USE" will produce the same result as the first example above.

See Section 14.2.4 for an explanation of the result if the record sought is not in DEPOT, but is found in the LEP database.

16. The Prism DISPLAY Command

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Following a successful search, the records are displayed on the terminal using one of two default formats called "Displays". If only one record is found, the "FULL" display is used; this shows all of the significant fields in the record.

If more than one record is found, the "BRIEF" display is used; this shows one line of information per record. There are several additional "Display" formats available for the DEPOT INVENTORY subfile. They may be listed on-line by using the "HELP DISPLAYS IN DEPOT" command:

 DEPOT Inventory
 Entry Form: BASIC
 10/02/90 13:46

 HELP DISPLAYS IN DEPOT

 |
 DEPOT DISPLAYS |

 |
 DEPOT DISPLAYS |

Records which have been found by a search (FIND term value) may be displayed in any of the following formats, using the syntax:

DISPLAY # <display.name>

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where # is the record number in the search result and <display.name> is one of the following (eg: BRIEF or FULL):

. ·	DISPLAY NAME	DESCRIPTION .
	BRIEF	The default for multiple records: ID, NICK, MAKE,
•		MODEL, and REV
• •	FULL	The default for single records: the entire record
	LOCATION	The Location history
	LOCINFO	Physical location equivalent of "logical" location
	MAINT	The Maintenance history
	PCNUM	The Property Control record, if ID = PC#####
	CRATE	Crate Profile (CAMAC Crates only)
	TREE	Parent:Child relationships, if LOC.ID is used
-P1	ess RETURN for your	earlier display; type HELP again for more general help
YOU	JR RESPONSE:	
f1=	Help	f7=Previous f9=Print

Any of the formats may be used to display any record using the DISPLAY command. The syntax is "DISPLAY # name"; where "#" is the record number from the search result (it may be omitted if there is only one record), and "name" is one of the display names described below.

FULL – this is the default when only one record is found by a search. It displays the full record:

_____ DEPOT Inventory Entry Form: BASIC / FULL display 10/02/90 13:48 Find ID 1601101* Record 7 of 10 : 16011015 ID Serial : 165 Nick : SAM-E, SLAC Drawing: DL-123-603-00-R4 Maker : SLAC Model : 123-603 Rev Lv: E Class: CAMAC Generic: SAM Procurement ID (PO,WO,etc): NA Cost: ? Account: NA Date Entered Service: 05/03/84 Maintenance Group: DMG Owning Group: SLC Comment: LEP ID = 16080 Drawing/Component Information: Procedures: -----Location History: Using Group: SLC Exp: SLC Name : SLC State : IN USE Location ID: 14132-S05 Location: CA03/CR08 In: 09/04/90 1447 By:CLANCEY Out: 11 Entered by: CLANCEY State : SPARE Location ID: 0-Location: B005 In: 03/19/90 0729 By: JAT Out: 09/04/90 1447 Entered by:DMG State : MAINT Location ID: 0-Location: B034 In: 03/07/90 0939 By: JAT Out: 03/19/90 0729 Entered by:DMG -This record continues next page; you may press RETURE to continue display Type: CREATE to add a new record. DISPLAY to see brief records. GET number, to update information. PRINT to print/mail/save records. YOUR RESPONSE: f1=Help f2=Find f3=Sel f4=Report f5=Get f6=Create f8=Entry f9=Print f10=Dis Also: And, Not, Or, Help Displays, Setup, Sort, Suggest, Lock, Pause, End

BRIEF – this is the default when more than one record are found by a search. It displays the ID, NICKNAME, MAKE, MODEL, and REV:

DEPOT	Inventory	Entry Form	BASIC / BRIEF d	lisplay	10/02/90 13:47
Find I	D 1601101*	4		10 rec	ords (sorted)
Number	Id	Nickname	Make	Model	Rev
1	16011018	CAR RCVR-241	Various	VARIOUS	 241
2	16011010	CAR RCVR-241	Various	VARIOUS	241
3	16011019	CAR RCVR-241	Various	VARIOUS	241
4	16011012	CVII	SLAC	123-589	A
5	16011014	DAC-C, TRANSIAC	Transiac	3016	С
6	16011011	PIOP-B	SLAC	123-624	В
7	16011015	SAM-E, SLAC	SLAC	123-603	E
8	16011016	SAM-E, SLAC	SLAC	123-603	Е
9	16011017	SAM-E, SLAC	SLAC	123-603	E
10	16011013	SCC MOD 2	SLAC	135-559	0

-Result sorted by NICKNAME

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Type: CREATE to add a new record. DIS FULL number, to see a full GET number, to update information. PRINT to print/mail/save records. YOUR RESPONSE:

f1=Help f2=Find f3=Sel f4=Report f5=Get f6=Create f8=Entry f9=Print f10=Dis

Also: And, Not, Or, Help Displays, Setup, Sort, Suggest, Lock, Pause, End

 ${\bf LOCATION}$ – displays the Location History portion of the record:

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DEPOT Inventory	Entry Form: BASIC / LOCATION of	lisplay 10/02/90 13:4
Find ID 1601101*		Record 7 of 10
	Location History for 1601101	
State : IN USE	Location ID: 14132-S05	
Location: CA03/CR08	In: 09/04/90 1447 By:0	CLANCEY Out: / /
	Entered by:CLANCEY	
State : SPARE	Location ID: 0-	
Location: B005	In: 03/19/90 0729 By:J	AT Out: 09/04/90 1447
	Entered by:DMG	
State : MAINT	Location ID: 0-	
Location: B034	In: 03/07/90 0939 By:J	AT Out: 03/19/90 0729
	Entered by:DMG	
-Records continue on	the next page; you may press	RETURN to continue display
Type: CREATE to add	a new record. DISPLA	Y to see brief records.
GET_number, to	update information. PRINT	to print/mail/save records
YOUR RESPONSE:		
f1=Help f2=Find f3=S	el f4=Report f5=Get f6=Create	f8=Entry f9=Print f10=I
Also And Not Or	Help Displays, Setup, Sort, S	uggest Lock Pause End

LOCINFO – displays (in BRIEF style) the NICKNAME, ID, SERIAL NUMBER, CURRENT LOCATION, PHYSICAL LOCATION, and LOCATION DATE (date the item's *State* and/or *Location* changed) for the selected records. If the current Location is a *logical* location name (*e.g.* DR02, LI18, FF01/CR03, etc), the corresponding *physical* location is displayed; otherwise, the current Location is interpreted as the physical location:

.

EPOT Inventory	Entry 1	Form: BASI	C / LOCINFO di	splay 10/0	2/90 13:48
Find ID 1601101*				10 records	(sorted)
NickName	Id	Serial	Location	Physical Loca	tion Date
7 SAM-E,SLAC	16011015	165	CA03/CR08	AS22-14-0221	09/04/90
8 SAM-E,SLAC	16011016	43	EP01/CR01	EP20-7338	05/08/90
9 SAM-E,SLAC	16011017	146	CA12/CR12	B725-0738	07/16/90
10 SCC MOD 2	16011013	123	B005	B005	06/08/90

-End of records in result; you may press RETURN to begin DISPLAY again Type: CREATE to add a new record. DIS FULL number, to see a full GET number, to update information. PRINT to print/mail/save records. YOUR RESPONSE: f1=Help f2=Find f3=Sel f4=Report f5=Get f6=Create f8=Entry f9=Print f10=Dis Also: And, Not, Or, Help Displays, Setup, Sort, Suggest, Lock, Pause, End

MAINTENANCE – displays the Maintenance History portion of the record:

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DEPOT Inventory
                  Entry Form: BASIC / MAINTENANCE display
                                                           10/02/90 13:49
Find ID 1601101*
                                                        Record 7 of 10
                   Maintenance History for 16011015
ID
     : 16011015
                                         Serial : 165
Nick : SAM-E, SLAC
                                          Drawing: DL-123-603-00-R4
Maker : SLAC
                                     Model : 123-603
Rev Lv: E
                     Class: CAMAC
                                            Generic: SAM
Maintenance History:
-----
Maintenance Type: REPAIR
                                   Maint. Tech: BMB
Date Started: 03/11/90
                                   Date Finished: 03/15/90
Total ManHours: 6.00
                                   Charge Acct: NA
Reported Problem: BAD READ BACKS
(CATER Numbers) : NA
                                   (Entered by): DMG
Symptom: 1) FAILS ALL TESTS. 2) FAILS RANGE TEST (CH. 5).
Repair : 1) REPLACE 5E; ALSO, INSTALL CORRECT RESISTOR PACK AT 7R. 2) REPLACE
        C10,C11 & C86.
Parts : Z8005E 0C11 0C10 0C86
-Records continue on the next page; you may press RETURN to continue display
Type: CREATE to add a new record.
                                        DISPLAY to see brief records.
     GET number, to update information.
                                        PRINT to print/mail/save records.
YOUR RESPONSE:
f1=Help f2=Find f3=Sel f4=Report f5=Get f6=Create
                                                 f8=Entry f9=Print f10=Dis
Also: And, Not, Or, Help Displays, Setup, Sort, Suggest, Lock, Pause, End
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PCNUM – if the record *ID* starts with PC, the corresponding record from the Property Control database is displayed:

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DEPOT Invento	ry Entry Form: BASIC /	PCNUM disp	lay 10/02/90 13:51
Find ID PC*			Record 24 of 4475
Tagno	: 07990C		
Flag	: 1		
Tagsuffix	: C		
Contract	: 5		
Class	: N-E		
Catalog	: 72040506		
Nomenclature	: GENERATOR PULSE		
Manufacturer	: HEWLETT PACK		
Model_Type	: 8011A		
Serial_No	: 2111A14035		
Requisition_N	b : 21945C		
Purchase_No	: 220576M		
Transaction	: 65		
Usage	: 01		
Acqn_Date	: 08//82		
Service_Life	: 10		
Tot_Cost	: \$1350.00		
Invy_Date	: 08/21/89		
Building	: 015		
Room	: -112		
Group	: AD		
Invy_Contact	: KRZASZCZAK, J		
-Records cont	inue on the next page; you may	y press RET	URN to continue display
Type: CREATE 1	o add a new record.	DISPLAY t	o see brief records.
GET numb	er, to update information.	PRINT to	print/mail/save records.
YOUR RESPONSE	•		-
f1=Help f2=Fi	nd f3=Sel f4=Report f5=Get f6	=Create	f8=Entry f9=Print f10=Dis

TREE – if the current location (*Clocid*) is a **Location ID** the associated parent and sub-assembly records, and their relationship, are displayed:

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DEPOT Inventory	Entry Fo	rm: BASIC / 1	REE display	10/02/90 13:49
Find ID 1601101				Record 7 of 10
NickName	RecordID	Loc ID	Date	
CAMAC CRATE-SLC	14132	·	08/23/89	
.PS850MOD	13942	14132-PS	08/23/89	
.CVII	16001258	14132-S01	08/23/89	
.SAM-E, KINETICS	16005736	14132-S02	08/23/89	
.SAM-E,SLAC	18000443	14132-S03	08/14/90	
.MMC-B	16003069	14132-S04	08/23/89	
*SAM-E,SLAC	16011015	14132-S05	09/04/90	
.SAM-E,SLAC	16000396	14132-S06	08/23/89	
.DAC-C,DSP	16004436	14132-508	08/23/89	
.IDOM -	16000145	14132-510	08/23/89	
.TNH	16004280	14132-S11	08/23/89	
BPM RF HEAD	16021122	14132-513	02/02/90	
CAMAC FILTER HOLDER	16021123	14132-519	02/02/90	
.TWONSTP	16004695	14132-S20	08/23/89	
.CSR	16004151	14132-523	08/23/89	
.SCC MOD 2	17965	14132-S25	08/23/89	
-Records continue on	-		press RETURN to o	continue display
Type: CREATE to add a	a new recor	d.	DISPLAY to see b	rief records.
GET number, to	update inf	ormation.	PRINT to print/m	ail/save records.
YOUR RESPONSE:				
f1=Help f2=Find f3=S	el f4=Repor	rt f5=Get f6=	Create f8=Ent:	ry f9=Print f10=Dis
Also: And, Not, Or,	Help Displ	ays, Setup,	Sort, Suggest, Lo	ck, Pause, End

Note that ID 16011015 (SAM-E, SLAC) is preceded by a "*", indicating the record for which the display was requested.

CRATE – displays the functional profile portion of the crate location record, along with the actual inventory of the crate. (Currently only the SLC control system CAMAC crates have functional crate profiles entered in DE-POT):

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Find	Inventory ID 1601101*	-	: BASIC / CRATE display	10/02, Record 7	/90 13:49 ' of 10
Crate	Profile for CA	(AS2:			
Slot	Functional Pro		Inventory Profile	Device Id	Date
S01			CVII	16001258	
S02	SAM-E*		SAM-E, KINETICS	16005736	08/23/89
S03	SAM-E*		SAM-E, SLAC	18000443	08/14/90
S04	MMC		MMC-B	16003069	08/23/89
S05	SAM-E*		SAM-E, SLAC	16011015	09/04/90
S06 S07	SAM-E*		SAM-E, SLAC	16000396	08/23/89
S08	DAC-C*		DAC-C,DSP	16004436	08/23/89
509 510	IDOM		IDOM	16000145	08/23/89
S11	TNH		TNH	16004280	
S12				10001200	007 207 00
S13	BPM RF HEAD		BPM RF HEAD	16021122	02/02/90
S14 S15 S16 S17 S18	==(BPM RF HEAI) IS 2-WIDE [1			
S19	CAMAC FILTER H	INLDER	CAMAC FILTER HOLDER	16021123	02/02/90
S20	TWONSTP		TWONSTP	16004695	
S21	-				,,
S22	==(CSR IS 2-W)	[DE [23])			
S23	CSR		CSR	16004151	08/23/89
S24	==(SCC IS 2-W1	IDE [25])			
S25	SCC MOD*		SCC MOD 2	17965	08/23/89
-Reco	ords continue of	n the next pag	ge; you may press RETURN	to continue d	lisplay
	CREATE to add				
	GET number, to	update infor	mation. PRINT to prim	nt/mail/save	records.
YÖUR	RESPONSE:	-			
f1=He	In f2=Find f3=	Sel f4=Report	f5=Get f6=Create f8=	Entry forDais	+ f10-Dia

DEPOT DEVICE, DEPOT MAKER, and DEPOT TABLE have only the "BRIEF" and "FULL" displays defined.

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Additional displays can be implemented by a knowledgeable SPIRES programmer.

17. The Prism SORT Command

If a search has found more than one record, the result can be sorted using the Prism "SORT" command. On-line help is available in Prism by typing "HELP SORT". The syntax of the command is:

"SORT [element] ... [element] ..."

[element] is the name of a subfile element defined for sorting.

Not all elements in the subfiles can be used for sorting. To see a list of the elements defined for sorting, type "SORT" followed by a carriage return; Prism will list all of the sortable elements in the DEPOT database:

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EPOT Inventory	Entry Fo	orm: BASIC	10/02/90 09:52
Sorting options			246 records
fo sort your curren	at search result, er	ter one or more so	rting fields from the
list below. If you	1 choose more than o	ne field, name the	most important first.
Sorting fields: ID			
1. ID	30. CMFIX	59. COST	
2. NICKNAME	31. CMDATE	60. DATE-REC	
3. MAKER	32. MAINT.TYPE	61. OWN-GR	
4. MODEL	33. CATER	62. COMMENT	
5. REV-VAR	34. SYMPTOM	63. I.USER.ADD	
6. SERIAL	35. FIX	64. VERIFY	
7. GENERIC	36. PARTS	65. VERIFY.ID	
8. CLASS	37. TECH	66. I.DATE.UPD	
9. CSTATE	38. FTE.HOURS	67. I.USER.UPD	
10. CURLOC	39. CHARGE.ACCT	68. DEVICECODE	
11. CLOCID	40. M.DATE.START	69. FULLNAME	
12. FULLCLOC	41. M.USER.START	70. DESCRIPTION	
13. AKA.CLOC	42. M.DATE.DONE		
14. CDATE	43. M.USER.DONE		
15. STATE	44. REPAIR.STATUS		
16. LOCATION	45. DRAWING		
17. LOC.ID	46. DRAW.MAKER.ID		
18. FULL.LOC	47. DRAW.MODEL		
19. AKA.LOC	48. DRAW.REV		
20. L.NAME	49. CD		
21. L.DATE	50. SA.ID		
22. L.TIME	51. C.USER		
23. L.USER	52. PROC.TYPE		
24. LEP.LOCATION	53. P.USER		
25. USE-GR	54. RAD.DATE		
26. EXP	55. TLD.FLAG		
27. NAME	56. MG		
28. CMTYPE	57. PO.NO		
29. CMSYMPTOM	58. ACCOUNT		
Type: OK to continu	ie SORT processing.	CANCEL to cand	el SORT processing.
UNDO to disca	rd changes to page.		
OUR RESPONSE:			
f1=Help f3=	Cancel f4=Undo	-	£8=0 K

Element names can be abbreviated to their shortest unique length.

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The order in which the elements are selected, or listed in the command, determines the major and minor sorting.

Prism sorts all fields in ascending order. Nearly all DEPOT fields are defined as alphanumeric; meaning "1001" will precede "37".

The element names can be included with the "SORT" command: "SORT CURLOC" or "SORT NICKNAME CURLOC".

18. The Prism REPORT Command

In addition to the Prism *displays*, reports may be designed using Prism's *report* facilities.

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There are two categories of PRISM reports: [1] "public" reports – the standard reports available to all users and [2] "personal" reports which are defined by each user using the PRISM SETUP REPORT command. The reports defined for each user are listed on the Report screen (type: "REPORT"), starting with the standard reports:

DEPOT	[Inventory	10/02/90 09:55
Repor	rt selection	
Choos	se a report by	typing its name or number below, e.g. BADCLOCID or 1
 ÷	NAME	DESCRIPTION
1.	BADCLOCID	Display invalid ClocID's
2.	HISTORY	Location and Maintenance History
 Perso	onal reports a	ailable for CLANCEY
З.		Alternate Location Info for BPMs
4.	CRATE	MULTIBUS CRATE AND BOARD MAINT. HISTORY
5.	DEMO	TESTING
6.	GROUPLOC	test
7.	LH	Unsorted Location Histories
8.	MAINTHIST	Full Maintenance History
9.	MYJUNK	unnamed stuff
10.	PROFILE	testing
11.	SERIALS	- Check for duplicate serial #s
12.	SPARELOC	Location of SPARE items
13.	STATUS	Current State & Location
14.	TEST	test
15.	WHEREIS	Current location information
Enter	r a report name	or number below; type CANCEL if you do not want a report.
Type	SETUP to defin	e or modify a personal report.
YOUR	RESPONSE:	
f1=He	elp f2=Setup f	=Cancel
 Also	: Lock, Pause	End

The standard reports are not listed on the Setup Report screen, since they cannot be modified by the user.

18.1 PRISM PUBLIC REPORTS

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The following reports are available to all DEPOT users.

18.1.1 The BADCLOCID Report

This report is used for verifying location information. The *Clocids* of all records in DEPOT are checked to determine if the records exist (this check is made when the *Clocid* is originally entered, but the record pointed to may subsequently be removed), and records whose *Clocid* points to a non-existent record are listed in the report. This report is primarily of interest to Data Base Administrators interested in verifying data integrity.

18.1.2 The HISTORY Report

This report lists the formatted Location and Maintenance Histories of the _selected records.

18.2 Defining Personal Reports

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> To design a report, type "SETUP REPORT" or "REPORT" followed by "SETUP" on the Report screen. You will be prompted to choose whether to design a new report, to modify an existing report, to derive a new report from an existing report, or to delete an existing report:

DE	POT Inventor	Setup Repo	ort 10/02/90)9:52		
		Select Personal Rep	ort Function			
	_ < Туре	the number of the function	you want to perform (1-4).			
	1. DEFINE	n new Personal Report layou	t.			
2. MODIFY an existing report layout.						
	3. DERIVE	new report layout from an	existing one.			
	4. REMOVE	n existing report layout.				
	< For	ODIFY, DERIVE, or REMOVE,	type a number from the list be	low.		
	1. BPMLOC	Alternate Loc	ation Info for BPMs			
	2. CRATE	MULTIBUS CRAT	E AND BOARD MAINT. HISTORY			
	3. DEMO	TESTING				
• • •	4. GROUPLO	test				
	5. LH	Unsorted Loca	tion Histories			
	6. MAINTHI	ST Full Mainten	nce History			
	7. MYJUNK	unnamed stuff				
	8. PROFILE	testing				
	9. SERIALS	Check for dup	licate serial #s			
	10. SPARELO	C Location of S	PARE items			
	11. STATUS	Current State	& Location			
	12. TEST	test				
	13. WHEREIS	Current locat	ion information			
-E	nter your cho	ices to begin SETUP				
	•	0	to discard changes to page.			
•	-	cancel SETUP.	6 1 6 1			
YO	UR RESPONSE:					
	=Help	f3=Cancel f4=Undo	f8=0K			

The standard reports are not listed on the Setup Report screen, since they cannot be modified by the user.

Whether designing a new report, or deriving or modifying an existing one, you will be prompted to list the element names to include (in the order you want them displayed in the report):

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EPOT Inventor	y Setup Repo	ort: STATUS	10/02/90 09:53
	Select Fields for	r Personal Report	
rom the list h	elow, enter names, abbr	eviations, or number	rs of fields to be
ncluded in you	ir report. Enter fields	in the order you wa	ant them to appear.
Type HELP REPO)RT FIELDS below for fie	ld descriptions.)	
NICKNAMEII	,_SERIAL,_CSTATE,_CURL(C. CDATE	
1. ID	24. LEP.LOCATION	47. M.TIME.DONE	70. RAD
2. NICKNAME	25. USE-GR	48. M.USER.DONE	71. RAD.DATE
3. MAKER	26. EXP	49. MAINT.TIMES	72. NEUTRONS
4. MODEL	27. NAME	50. REPAIR.STATUS	73. GAMMA
5. REV-VAR	28. USER.PHONE	51. DRAWING	74. TLD.FLAG
6. SERIAL	29. LOCAT.TIMES	52. DRAW.MAKER.ID	75. MG
7. GENERIC	30. CMTYPE	53. DRAW.MODEL	76. PO.NO
8. CLASS	31. CMSYMPTOM	54. DRAW.REV	77. ACCOUNT
- 9. CSTATE	32. CMFIX	55. CD	78. COST
10. CURLOC	33. CMDATE	56. SA.ID	79. DATE-REC
11. CLOCID	34. MAINT.TYPE	57. PART.TYPE	80. DWN-GR
12. FULLCLOC	35. PROBLEM	58. FW.INDEX	81. COMMENT
13. AKA.CLOC	36. CATER	59. C.DATE	82. I.DATE.ADD
14. CDATE	37. SYMPTOM	60. C.TIME	83. I.TIME.ADD
15. STATE	38. FIX	61. C.USER	84. I.USER.ADD
16. LOCATION	39. PARTS	62. PROC.TYPE	85. VERIFY
17. LOC.ID	40. TECH	63. PROC.NAME	86. VERIFY.ID
18. FULL.LOC	41. FTE.HOURS	64. PROC.DESC	87. I.DATE.UPD
19. AKA.LOC	42. CHARGE.ACCT	65. PROC.DAYS	88. I.TIME.UPD
20. L.NAME	43. M.DATE.START	66. PROC.REF	89. I.USER.UPD
21. L.DATE	44. M.TIME.START	67. P.DATE	90. DEVICECODE
22. L.TIME	45. M.USER.START	68. P.TIME	91. FULLNAME
23. L.USER	46. M.DATE.DONE	69. P.USER	92. DESCRIPTION
After complet:	ing this screen, type OK	below to continue	SETUP
ype: OK below	to continue SETUP.	CANCEL to canc	el SETUP.
PREVIOUS	to return to príor page	. UNDO to discar	d changes to page.
OUR RESPONSE:			_ • •

The second Report screen prompts for a name and description for the report. It also includes a menu which gives the opportunity to customize the layout, sort and group records, share the report with other users, and include summary statistics:

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DEPOT Inven	tory	Setup Report	: STATUS	10/02/90 09:54
	S	elect Options for H	Personal Repo	rt
Layo	ut Name	Description		
STAT	US	Current_State_&_	Location	
1 < Ch	oose how yo	u want fields to be	e displayed i	n your report (1-2).
1.	ACROSS: Fi	elds next to each o	ther in colu	mns across the page.
2.	DOWN: Fiel	ds under each other	n rows dow	n the page.
Mark add	itional opt	ions you want to i	nclude, chang	e, or review with an "X"
x	Organize r	eport items into gr	coups (*)	
x	Include su	nmary statistics		NOTE: (*) indicates an
x	Customize :	field titles and/or	r widths (*)	option with settings
x	Customize :	report page layout		currently in effect for
	Prepare fo	r export to another	r program	this report layout.
r	Share this	layout with other	people	
(Туре Н	ELP below f	or more informatio	n on options	for Personal Reports)
-Type OK be	low to see	marked options, or	SEND to fini	sh
Type: OK be	low to cont	inue SETUP. H	PREVIOUS to r	eturn to prior page.
SEND 1	below to co	mplete SETUP. C	CANCEL to can	cel SETUP.
YOUR RESPON	ISE :			
f1=Help	f3=Canc	el f4=Undo f5=Send	f7=Pr	evious f8=0K

If the "Organize report items into groups" option is chosen, the screen for detailing the sorting order is displayed:

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_____ DEPOT Inventory Setup Report: STATUS 10/02/90 09:54 Organize Report Items into Groups Enter up to four groups for grouping. Choose from your report fields listed below or, if you want to use a field not included in your report, enter its name or abbreviation. (For more information, type HELP GROUPING below.) GROUP BY: 1. NICKNAME..... _ <-- NEW PAGE: Mark an "X" if new</pre> 2. _____ groups for any of these fields 3. _____ should begin on a new page. 4. _____ ORDERING: To arrange items within groups in alphabetical/numerical order by an additional field, enter its name or number here: _____ 1. NICKNAME 3. SERIAL 5. CURLOC 2. ID 4. CSTATE 6. CDATE (Type HELP REPORT FIELDS to see a complete list of valid field names.) After completing this screen, type OK below to continue SETUP Type: OK below to continue SETUP. CANCEL to cancel SETUP. PREVIOUS to return to prior page. UNDO to discard changes to page. YOUR RESPONSE: f1=Help f3=Cancel f4=Undo f7=Previous f8=0K

If the "Include summary statistics" option is chosen, the screens to pick the elements to summarize and the type of statistics to calculate are displayed:

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DEPOT Inventory	Setup Report: STATUS	10/02/90 09:54
Selec	t Fields for Summary Statistic	cs
Mark any field you	want to summarize in your rep	oort with an "X":
X NICKNAME _ ID	_ SERIAL	_ CSTATE
_ CURLOC _ CD.		
To report ONLY summary st	tatistics (not individual reco	rds), mark an "X" here: _
On additional screens you	u will be able to choose from	the following statistics:
COUNT count occ	urrences of a field in the rep	port.
TOTAL add up a	field's values.	
AVERAGE show aver	age or mean of a field's value	38.
MIN show smal	lest value for a field.	
MAX show larg	est value for a field.	
STD-DEV show star	dard deviation or spread of va	alues around an average.
-After completing this so	creen, type OK below to contin	ue SETUP
• Type: OK below to continu	ue SETUP. CANCEL to c	ancel SETUP.

PREVIOUS to return to prior page. UNDO to discard changes to page. YOUR RESPONSE: f1=Help f3=Cancel f4=Undo f7=Previous f8=OK

_____ _____ DEPOT Inventory Setup Report: STATUS 10/02/90 09:54 Select Summary Statistics For each field below, type an "X" for the statistics you want in your report: COUNT NICKNAME For overall report: For group NICKNAME: x -After completing this screen, type OK below to continue SETUP Type: OK below to continue SETUP. CANCEL to cancel SETUP. PREVIOUS to return to prior page. UNDO to discard changes to page. YOUR RESPONSE: f1=Help f3=Cancel f4=Undo f7=Previous f8=0K

And for each field that summary statistics have been selected:

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If the "Customize field titles and/or widths" options is selected, the screen for specifying titles and widths is displayed:

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DEPOT I	nventory	Setup	Report: STATUS	10/02/90 09:55
	Cus	stomize Fi	eld Titles and Widths	
	To change a fie	eld width o	or title, type a new value o	ver it.
	Field Name	Width	Title	
1	NICKNAME	20_	Nickname	
2	ID	15_	ID	
3	SERIAL	12_	Serial_No	
4	CSTATE	10_	Cstate	
5	CURLOC	15_	CurLoc	
6	CDATE	8	Date	
T.				
	otal report width			
Тс	o recalculate tot	al report	width, mark an "X" here>	-
- (Use)	louble-slashes to	create mu	lti-line column titles; e.g	Work//Phone)
	-		e DK below to continue SETU	
	- 0			
			CANCEL to cancel S	
PI	REVIOUS to return	to prior ;	page. UNDO to discard ch	anges to page.
YOUR RE	SPONSE:			
f1=Help	f3=Cance	l f4=Undo	f7=Previous f8=	=0 K

If the "Customize report page layout" options is selected, the layout screen is displayed:

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DEPOT	Inventory	Setup Report:		
		Customize Page Lay	out Options	
То	change a pa	ge layout option for your	report, type a	new value over it.
	Maximum nu	mber of lines per page:		60_
	Number of	lines to be skipped betwe	en records:	0_
	Number of	spaces to appear between o	columns:	2_
	Number of	lines to be skipped betwe	en groups:	1_
	Number of	spaces to indent report w	nen printing:	8_
	Suppress p	age headers and field tit	les?	No
		le to appear at the top of ort		
Type:	SEND below	to complete SETUP.	CANCEL to canc	el SETUP.
1	PREVIOUS to	return to prior page.	UNDO to discar	d changes to page.
YOUR R	ESPONSE :			
f1=Hel	.p f3	=Cancel f4=Undo f5=Send	f7=Previou	8

If the "Share this layout with other people" option is selected, the following screen is displayed:

DEPOT Inventory Setup Report: STATUS 10/02/90 09:55 Share this Report Layout with Other People To make this report layout available to other people, enter one or more userids. Use commas or spaces to separate multiple userids. To remove an account, blank it out. PUBLIC_ (Note: You may also enter SPIRES access-lists here. Type HELP for details.) -This is your last SETUP screen; type SEND below when finished Type: SEND below to complete SETUP. CANCEL to cancel SETUP. PREVIOUS to return to prior page. UNDO to discard changes to page. YOUR RESPONSE: f1=Help f3=Cancel f4=Undo f5=Send f7=Previous

The VM ID "PUBLIC" in this example is used to share the layout with ALL users of DEPOT.

Once defined and saved, the report format is available for future use until it is deleted by the user.

18.3 DISPLAYING REPORTS ON THE TERMINAL

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To display your search result on the terminal using a Report form, type "DISPLAY REPORT" after finishing "SETUP REPORT". To use an existing report form, type "REPORT", select the report you wish to use, then type "DISPLAY REPORT":

	DEPOT Inventory	Rer	ort: STATUS		10/02/90 09:56
	Display Report S	STATUS (only 79 of	95 columns shown)	
	Oct. 2, 1990		STATUS R	eport	
	Nickname	ID	Serial No.	Cstate	Cloc
	PSC-E	13295	2	IN USE	SPEAR4/CROO
		13297	4	IN USE	SPEAR4/CROO
		13300	7	IN USE	SPEAR4/CROO
		13301	8	IN USE	LI24/CR01
·		13303	10	IN USE	SPEAR4/CROO
		13305	12	IN USE	CA12/CR12
		13306	13	IN USE	FF11/CR05
• • ••••		13308	15	IN USE	FF11/CR03
		13309	16	IN USE	SPEAR4/CROO
		13311	18	IN USE	DR02/CR01
		13312	19	IN USE	DRO3/CRO1
		13314	21	IN USE	LI31/CRO1
		13317	24	IN USE	DR12/CR01
		13318	25	IN USE	SPEAR4/CROO
		13319	26	IN USE	DRO3/CRO1
		13349	30	IN USE	DR12/CR07
		13352	33	IN USE	L106/CR01
		13354	35	IN USE	SPEAR4/CROO
		13356	37	SPARE	BO34-DMG
		13358	39	SPARE	BO34-DMG
		13359	40	IN USE	SPEAR4/CROO
		13360	41	IN USE	LI31/CRO2
		13361	42	IN USE	LI19/CRO1
	-Report continue	es on the next page	; press RETURN t	o continue	
	Type: PRINT to p	orint/mail/save rep	ort. FIND to	o begin a new	search.
	DISPLAY RE	PORT to restart re	port. REPORT	to change rep	ports.
. •	YOUR RESPONSE:				
	f1=Help f2=Find	f3=Select f4=Report	rt f5=Dis Rept	f8=Entry	f9=Print f10=Dis

18.4 PRINTING REPORTS

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To print your search result, type "PRINT". From the menu, select the option to print all the records in the search result, then select the display format to use for printing:

EPOT Inventory	Report: STATUS	10/02/90 09:57
rint options		246 records
<pre> RECORDS to be p</pre>	rinted	
1. Your current sea	rch result of 246 records.	
2_ < FORMATTING of t	he data (enter a number from the	e list below)
1. BRIEF display		
2. FULL display		
3. CRATE display		
4. LAC display		
5. LOCATION display		
6. LOCINFO display		
7. MAINTENANCE disp	lay	
8. PCNUM display		
9. PROFILE display		
10. RACK display		
11. TREE display		
1 < DESTINATION of	the output (enter a number from	the list below)
1. System printer	System printer id: IMELA2	-
2. Another user	Copies: 1_ Indent: 8_	
3. Computer file	١	
	I	
	Other options: EXEC IMPRT (ON IMELA2 CC
Type: OK to continue F	PRINT request. UNDO to disca	rd changes to page.
CANCEL to cancel	•	0 . 0
YOUR RESPONSE:	·	
	cel f4=Undo	f8=0K

If you wish to use a Report format, rather than a Display, type "REPORT" to select the format before typing "PRINT"; the report format will then be included as the first choice on the print menu:

•

DEPOT Invento	ry	Report:	STATUS	10/02/90 09:57
Print options	1			246 records
1 < RECORD	S to be printed			
1. Your cu:	rrent search rest	ilt of 246	records.	
1 < FORMAT	TING of the data	(enter a	number from i	the list below)
	FUS report			
	-			
2. BRIEF d				
3. FULL di				
4. CRATE d				
5. LAC dis				
6. LOCATIO				
7. LOCINFO	•			
	ANCE display			
9. PCNUM d				
10. PROFILE	-			
11. RACK di				
12. TREE di	splay			
1 < DESTIN	ATION of the out	put (enter	a number fr	om the list below)
1. System	printer Sys	stem print	er id: IMELA:	2
2. Another	user Cop	ies: 1_	Indent: 8_	
3. Compute	erfile			
	t			
	Oth	er option	s: EXEC IMPRI	(ON IMELA2 CC
Type: OK to c	ontinue PRINT re	quest .	UNDO to dis	card changes to page.
CANCEL	to cancel reques	t.		
YOUR RESPONSE	3:			
f1=Help	f3=Cancel f4=0	Jndo		f8=0K

Finally, select the System printer option (if this choice was not highlighted, hit Enter to bring up the menu choices for printer),

1. To print on the 3800 laser printer at SCS, leave "System printer id:" blank and type "EXEC PRT (ON 3800A CC" after "Other options:". Use 3800D to print on Class D paper. 2. To print to an Imagen or other RSCS type printer, type the printer name after "System printer id:" (e.g. an Imagen printer name, such as IM-CGB1 and type "EXEC IMPRT (ON <printer name> CC" after "Other options:". <printer name> must be replaced by the name of the printer to be used - same as the System printer id.

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18.5 Sending Reports to Another User

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To send a report of your search result to another user, follow the steps for printing, but select the *Another user* option (if this choice was not highlighted, hit Enter to bring up the menu choices for Email addresses), and enter the Email address of the user you wish to send the report to.

DEPOT Inventory	Report: :	STATUS	10/02/90 09:57
Print options			246 records
1 < RECORDS t	o be printed		
1. Your curre	nt search result of 246	records.	
1_ < FORMATTIN	IG of the data (enter a m	number from the l	ist below)
 STATUS rep 	ort		
2. BRIEF disp	lay		
3. FULL displ	ау		
4. CRATE disp	lay		
5. LAC displa	у		
6. LOCATION d	isplay		
7. LOCINFO di	splay		
8. MAINTENANC	E display		
9. PCNUM disp	lay		
10. PROFILE di	splay		
11. RACK displ	ay		
12. TREE displ	ay		
3 < DESTINATI	ION of the output (enter	a number from th	e list below)
1. System pri	nter Email address	S: DEPOT AT SLACV	x
2. Another us	er		
3. Computer f	ile		
	1		
I			
	inue PRINT request.	UNDO to discard	changes to page.
	cancel request.		
YOUR RESPONSE:			
f1=Help :	f3=Cancel f4=Undo		f8=0K

18.6 SAVING REPORTS TO DISK

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To save your search result on disk, follow the steps for printing, but select the *Computer file* option (if this choice was not highlighted, hit Enter to bring up the menu choices for computer files), and enter the filename filetype filemode to use for saving the file. Under *Other options* you may enter "REPLACE":

DEPOT INV	entory	Report: STATUS	10/02/90 09:57
Print opt	•		246 records
-	CORDS to be prin	nted	
	-	n result of 246 records.	
1_ < FO	RMATTING of the	data (enter a number from the	list below)
1. STA	TUS report		
2. BRI	EF displa y		
3. FUL	L displa y		
4. CRA	TE display		
5. LAC	display		
6. LOC	ATION display		
7. LOC	INFO display		
8. MAI	NTENANCE displa;	y.	
9. PCN	UM display		
10. PRO	FILE display		
11. RAC	K display		
12. TRE	E display		
3 < DE	STINATION of the	e output (enter a number from	the list below)
1. Sys	tem printer	File name: STATUS_REPORT_A_	
2. Ano	ther user	ł	
3. Com	puter file	1	
		1	
		Other options: REPLACE	
Type: OK	to continue PRI	NT request. UNDO to discar	d changes to page.
CAN	CEL to cancel re	equest.	
YOUR RESP	ONSE:		
f1=Help	f3=Cance]	f4=Undo	f8=0K

19. Searching & Reporting in DEPOT INVENTORY: **An Example**

This chapter gives an annotated, step by step list of the commands needed to enter DEPOT, find a collection of records, sort the records, create and display a report, and save the report to disk. The example is fairly simple, for the sake of brevity and clarity.

• Log on to VM

- Access the DEPOT program disk: "GIME DEPOT 191". (This command may be placed in your PROFILE EXEC if you are a regular user of DE-POT.)
- Enter the SPIRES/Prism DEPOT application: "DEPOT". The DEPOT Welcome screen will be displayed:

DEPOT Invent	ery Entry Form: BASIC	10/05/90 14:01
	* * Modify BASIC DEPOT Informat	ion Form * *
This form	will allow you to add new or modify	existing basic item
informati	n. If modifying an existing record	l issue SEARCH or FIND to
identify	he record (or set of records) you w	ish to modify. Then issue the
command G	T nnn, where nnn is the search resu	lt number of the item you want.
To add a p	ew basic information record issue t	he CREATE command.
When you a	re complete filling in the form, is	
	For assistance with this appli	cation, contact
	Patrick Clancey, CLANCEY,	x2339.
-	*	*
-Entry form	ASIC is now set	
Type: CREATE	to add a new record. ENTRY to c	hange entry forms.
FIND to	search this file.	
YOUR RESPONS	E: FIND NICK SAM-E* AND CSTATE IN US	E
f1=Help f2=F	ind f3=Select f4=Report f6=Cr	eate f8=Entry
Also: Setup	Command, Suggest, Lock, Pause, End	1

• Find all of the records for *Sampling Analog Monitors* which are currently in service. Note that truncated searching is used on the *Nickname*, since there are four different varieties of the SAM-E.

"FIND NICK SAM-E* AND CSTATE IN USE"

The resulting records are shown using the default BRIEF display:

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DEP	OT I	nventory	Entry Form: B	ASIC / BRIEF displa	y 10	/05/90 14:02
Find	d NI	CKNAME SAP	I-E* and CSTATE IN U	SE		424 records
Numl	ber	Id	Nickname	Make	Model	Rev
	1	13275	SAM-E, SLAC	SLAC	123-603	Е
	2	18000460	SAM-E, SLAC	SLAC	123-603	Е
	3	18000443	SAM-E, SLAC	SLAC	123-603	Е
	4	16002120	SAM-E, DSP	DSP	2032	E
	5	16030296	SAM-E, DSP	DSP	2032	Е
	6	16011036	SAM-E, SLAC	SLAC	123-603	Е
	7	15628	SAM-E, SLAC	SLAC	123-603	Е
	8	16000190	SAM-E, SLAC	SLAC	123-603	Е
	9	13344	SAM-E, SLAC	SLAC	123-603	E
-	10	16030229	SAM-E,DSP	DSP	2032	E
	11	16030231	SAM-E,DSP	DSP	2032	E
	12	16030232	SAM-E, DSP	DSP	2032	Е
	13	16030230	SAM-E, DSP	DSP	2032	Е
	14	16030233	SAM-E,DSP	DSP	2032	E
	15	18000128	SAM-E, SLAC	SLAC	123-603	Е
	16	15819	SAM-E, SLAC	SLAC	123-603	Е
	17	16000479	SAM-E, SLAC	SLAC	123-603	Е
	18	16011017	SAM-E, SLAC	SLAC	123-603	Е
	19	16011016	SAM-E, SLAC	SLAC	123-603	E
	20	16011015	SAM-E, SLAC	SLAC	123-603	E
	21	16021700	SAM-E, KINETICS	Kinetic Systems	3527	Е
	22	16021697	SAM-E, KINETICS	Kinetic Systems	3527	Е
	23	16021698	SAM-E, KINETICS	Kinetic Systems	3527	E
	24	16021694	SAM-E, KINETICS	Kinetic Systems	3527	Е
	25	16021692	SAM-E, KINETICS	Kinetic Systems	3527	Е
-Re-			e on the next page;	•		ue displav
			dd a new record.	DIS FULL numbe		
			to update informat:			
ייזהי		-	IRT CURLOC	ion. Inimi co prin	с, шатт, заve	1000103.
			3=Sel f4=Report f5=	Get f6=Create f	8∓Entrv f9=	Print f10=Di
	-		-	Setup, Sort, Sugges	•	

• Sort the search result by current location:

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"SORT CURLOC"

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The sorted records will be re-displayed using the BRIEF display:

DEPOT	Inventory	Entry Form: BAS	IC / BRIEF display	y 10/05/90	14:02
Find NI	ICKNAME SAN	I-E* and CSTATE IN USE	2	424 records (so	rted)
Number	Iđ	Nickname	Make	Model	Rev
1	16000190	SAM-E, SLAC	SLAC	123-603	Е
2	13344	SAM-E, SLAC	SLAC	123-603	Е
3	16006861	SAM-E, SLAC	SLAC	123-603	Е
4	16008726	SAM-E, KINETICS	Kinetic Systems	3527	Е
5	16020415	SAM-E, DSP	DSP	2032	Е
6	16005074	SAM-E, KINETICS	Kinetic Systems	3527	Е
7	16007438	SAM-E, KINETICS	Kinetic Systems	3527	Е
8	16030233	SAM-E, DSP	DSP	2032	Е
9	16030230	SAM-E, DSP	DSP	2032	Е
10	16005056	SAM-E, KINETICS	Kinetic Systems	3527	Е
11	16030232	SAM-E,DSP	DSP	2032	Е
12	16030231	SAM-E, DSP	DSP	2032	Е
13	16030296	SAM-E, DSP	DSP	2032	Е
14	16001321	SAM-E, SLAC	SLAC	123-603	Е
15	16002082	SAM-E, SLAC	SLAC	123-603	Е
16	16007436	SAM-E, KINETICS	Kinetic Systems	3527	Е
17	16008730	SAM-E, KINETICS	Kinetic Systems	3527	Е
18	14899	SAM-E, SLAC	SLAC	123-603	Е
19	16073	SAM-E, SLAC	SLAC	123-603	Е
20	16000245	SAM-E, SLAC	SLAC	123-603	Е
21	16005055	SAM-E, KINETICS	Kinetic Systems	3527	Е
22	16008731	SAM-E, KINETICS	Kinetic Systems	3527	Е
23	16018434	SAM-E, KINETICS	Kinetic Systems	3527	Е
24	16018435	SAM-E, KINETICS	Kinetic Systems	3527	E
25	16018425	SAM-E, KINETICS	Kinetic Systems	3527	Е
-Resul	t sorted by	V CURLOC	-		
		add a new record.	DIS FULL numbe	er, to see a full	
		to update informatio			s.
		ETUP REPORT	1		
f1=Hel]	p f2=Find t	f3=Sel f4=Report f5=Ge	et f6=Create f	8=Entry f9=Print f	10=D:
Also	And Wot	Or, Help Displays, Se	tun fort fuggos	+ Lask Danas Em	,

• Enter SETUP REPORT to create a report to display the record elements of interest:

DEPOT :	Inventory	Setup Report	10/05/90 14:03
	Sel	lect Personal Report Function	
1	< Type the number	r of the function you want to	perform (1-4).
1.	DEFINE a new Pers	onal Report layout	
2.	MODIFY an existin	g report layout.	
З.	DERIVE a new repo	rt layout from an existing on	е.
4.	REMOVE an existin	g report layout.	
	< For MODIFY, DE	RIVE, or REMOVE, type a numbe	er from the list below.
1.	BPMLOC	Alternate Location Info f	or BPMs
2.	CRATE	MULTIBUS CRATE AND BOARD	MAINT. HISTORY
З.	DEMO	TESTING	
4.	GROUPLOC	test	
5.	LH	Unsorted Location Histori	es
6.	MAINTHIST	Full Maintenance History	
7.	MYJUNK	unnamed stuff	
- 8.	PROFILE	testing	
9.	SERIALS	Check for duplicate seria	l #s
10.	SPARELOC	Location of SPARE items	
11.	STATUS	Current State & Location	
12.	TEST	test	

"SETUP REPORT"

CANCEL to cancel SETUP.

f3=Cancel f4=Undo

YOUR RESPONSE:

f1=Help

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f8=0K

• Select the DEFINE a new Personal Report layout option ([1]); hit "PF8" to proceed.

Select the elements to display in the report (Nickname, ID, Serial Number, Current Location, Current Location Id, and Date of Location entry
 NICKNAME ID SERIAL CURLOC CLOCID CDATE):

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om the list be	low, enter names, abbr	r Personal Report	s of fields to be
	report. Enter fields		
-	T FIELDS below for fie	-	no them to appear.
		id descriptions.)	
2 10 SERIAL 10	D 11 CDATE		
1. ID	24. LEP.LOCATION	47. M.TIME.DONE	70. RAD
2. NICKNAME	25. USE-GR	48. M.USER.DONE	71. RAD.DATE
3. MAKER	26. EXP	49. MAINT.TIMES	72. NEUTRONS
4. MODEL	27. NAME	50. REPAIR.STATUS	73. GAMMA
5. REV-VAR	28. USER.PHONE	51. DRAWING	74. TLD.FLAG
6. SERIAL	29. LOCAT.TIMES	52. DRAW.MAKER.ID	
7. GENERIC	30. CMTYPE	53. DRAW.MODEL	76. PO.NO
8. CLASS	31. CMSYMPTOM	54. DRAW.REV	77. ACCOUNT
9. CSTATE	32. CMFIX	55. CD	78. COST
10. CURLOC	33. CMDATE	56. SA.ID	79. DATE-REC
11. CLOCID	34. MAINT.TYPE	57. PART.TYPE	80. OWN-GR
12. FULLCLOC	35. PROBLEM	58. FW.INDEX	81. COMMENT
13. AKA.CLOC	36. CATER	59. C.DATE	82. I.DATE.ADD
14. CDATE	37. SYMPTOM	60. C.TIME	83. I.TIME.ADD
15. STATE	38. FIX	61. C.USER	84. I.USER.ADD
16. LOCATION	39. PARTS	62. PROC.TYPE	85. VERIFY
17. LOC.ID	40. TECH	63. PROC.NAME	86. VERIFY.ID
18. FULL.LOC	41. FTE.HOURS	64. PROC.DESC	87. I.DATE.UPD
19. AKA.LOC	42. CHARGE.ACCT	65. PROC.DAYS	88. I.TIME.UPD
20. L.NAME	43. M.DATE.START	66. PROC.REF	89. I.USER.UPD
21. L.DATE	44. M.TIME.START	67. P.DATE	90. DEVICECODE
22. L.TIME	45. M.USER.START	68. P.TIME	91. FULLNAME
23. L.USER	46. M.DATE.DONE	69. P.USER	92. DESCRIPTION
After completin	g this screen, type OK	below to continue S	ETUP
ype: OK below t	o continue SETUP.	CANCEL to cance	al SETUP.
PREVIOUS to	o return to prior page	. UNDO to discard	1 changes to page.
OUR RESPONSE:			
	3=Cancel f4=Undo	f7=Previous	f8=0¥

Note that the fields may be entered by name or by number. Hit "PF8" to proceed.

- Enter the Layout Name ("WHEREIS") and Description ("Current location info"). Hit "PF8" to proceed.
- Select ACROSS ([1]) for the layout.

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• At this point you may indicate that you wish to further customize the report using the *Group*, *Summary statistics*, field titles and/or widths, or report page layout options:

DEPDT Inventory	Setup Report	10/05/90 14:04
	Select Options for Personal Repor	t
Layout Name	Description	
WHEREIS	Current location info	
1 < Choose how	you want fields to be displayed in	your report (1-2).
1. ACROSS:	Fields next to each other in column	ns across the page.
2. DOWN: Fi	elds under each other in rows down	the page.
Mark any addition	nal options you want to include in ;	your report with an "X"
Organize	report items into groups	
_ Include	summary statistics	
_ Customiz	e field titles and/or widths	
_ Customiz	e report page layout	
_ Prepare	for export to another program	
_ Share th	is layout with other people	
(Type HELP below	7 for more information on options f	or Personal Reports)
-Type OK below to se	ee marked options, or SEND to finis	h
Type: DK below to co	ontinue SETUP. PREVIOUS to re	turn to prior page.
SEND below to	complete SETUP. CANCEL to cance	el SETUP.
YOUR RESPONSE:		
f1=Helpf3=Ca	ncel f4=Undo f5=Send f7=Prev	vious f8=0K

• Save the report definition:

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"SEND" or "PF5"

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	DEPOT Inventory	Report: WHERE	10/05/90 14:05
	Find NICKNAME SAM-E*	and CSTATE IN USE	424 records (sorted)
•	Your report, WHEREIS,	is now ready for use.	To produce a report with your
	current search result	3	
	type DISPL	AY REPORT to view this	report online.
	or: type PRINT	[to print, mail, or sav	ve a copy of this report.
	To produce a report w	ith a different search	result, first type FIND to search
	this file, and then u	se DISPLAY REPORT or PR	INT.
-	To modify this report	layout, type SETUP REF	PORT *.
	-Report WHEREIS is no	w set	
	Type: DISPLAY REPORT	to see report online.	FIND to begin a new search.
	PRINT to print/n	mail/save report.	REPORT to change reports.
	YOUR RESPONSE: DISPLA	Y REPORT	
• · ·	f1=Help f2=Find f3=Se	elect f4=Report f5=Dis H	lept f8=Entry f9=Print f10=Dis

Also: And, Not, Or, Setup, Sort, Command, Suggest, Lock, Pause, End

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• Display the report on the terminal:

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"DISPLAY REPORT"

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	DEPOT Inventory	R	eport: WHEREI	5	10/05/90 14:05
	Display Report WHE	REIS (only 79	of 88 columns	shown)	
	Oct. 5, 1990		WHEREIS	Report	
	Nickname	ID	Serial No.	CurLoc	ClocID
	SAM-E, SLAC	16000190	255	AMOO/CRO2	16019002-504
	SAM-E, SLAC	13344	25	AMOO/CRO3	16578-505
	SAM-E, SLAC	16006861	427	B006/RM109A	0-
	SAM-E, KINETICS	16008726	242	B015-PSOG	0-
	SAM-E,DSP	16020415	7	B015-102A	16020412-
	SAM-E, KINETICS	16005074	140	B015,112	0-
	SAM-E, KINETICS	16007438	267	B033	0-
	SAM-E, DSP	16030233	453	B034-RM.250	0-
	SAM-E, DSP	16030230	450	B034-RM.250	0-
	SAM-E, KINETICS	16005056	138	B040	0-
	SAM-E, DSP	16030232	451	B040-RM.G111	0-
	SAM-E, DSP	16030231	452	B040-RM.G111	0-
	SAM-E, DSP	16030296	458	B040-RM.G111	0-
	SAM-E, SLAC	16001321	412	B040-Y105	0-
	SAM-E, SLAC	16002082	418	B040,G123	0-
-	SAM-E, KINETICS	16007436	266	B041	0-
	SAM-E, KINETICS	16008730	274	B041	0-
	SAM-E, SLAC	14899	64	B060-01	0-
	SAM-E, SLAC	16073	211	B060-01	0-
	SAM-E, SLAC	16000245	266	B084	0-
	SAM-E, KINETICS	16005055	139	B084	0-
	SAM-E, KINETICS	16008731	265	B084-G213	0-
	SAM-E, KINETICS	16018434	313	B084/B222	0-
	-Report continues	on the next pa	ge; press RETU	JRN to continue	
	Type: PRINT to prim	nt/mail/save r	eport. FI	ND to begin a n	lew search.
	DISPLAY REPOR	lT to restart i	report. RE	PORT to change	reports.
	YOUR RESPONSE: PRI	NT			
	f1=Help f2=Find f3	=Select f4=Rep	ort f5=Dis Re	pt f8=Enti	ry f9=Print f10=D

• Select the PRINT option to save the output ("print to disk"):

•

"PRINT"

DEPOT Inventory	Report: WHEREIS	10/05/90 14:06
Print options		424 records (sorted)
1 < RECORDS to be print	ted	
1. Your current search	result of 424 records.	
1_ < FORMATTING of the	data (enter a number from t	he list below)
1. WHEREIS report		
2. BRIEF display		
3. FULL display		
4. CRATE display		
5. LAC display		
6. LOCATION display		
7. LOCINFO display		
8. MAINTENANCE display		
9. PCNUM display		
10. PROFILE display		
11. RACK display		
12. TREE display		
3 < DESTINATION of the	output (enter a number fro	m the list below)
1. System printer	System printer id: 3800	
2. Another user	Copies: 1_ Indent: 8_	
3. Computer file	l	
I	l	
1	Other options: CLASS A	
Type: OK to continue PRIM	Trequest. UNDO to disc	ard changes to page.
CANCEL to cancel re	-	0 , 0
YOUR RESPONSE:	1	
f1=Help f3=Cancel	f4=Undo	f8=0K

- Select Current search result of nn records ([1]).
- Select the WHEREIS report ([1]).

• Select the *Computer file* option ([3]). If this was not the default option, you must hit RETURN to see the choices for Computer file.

1.

• Enter a *File name* (using standard VM filename filetype and filemode). Enter "REPLACE" in *Other options* if you want to automatically replace any existing file with the same name:

DEPOT Inventory	Report: WHE	REIS 10/05/90 14:16
Print options		35 records (sorted)
1 < RECORDS	to be printed	
1. Your curr	ent search result of 35 rec	ords.
L_ < FORMATTI	NG of the data (enter a num	ber from the list below)
1. WHEREIS r	eport	
2. BRIEF dis	play	
3. FULL disp	lay	
4. CRATE dis	play	
5. LAC_displ	ау	
6. LOCATION	display	
7. LOCINFO d	isplay	
. 8. MAINTENAN	CE display	
9. PCNUM dis	play	
10. PROFILE d	isplay	
11. RACK disp	lay	
12. TREE disp	lay	
3 < DESTINAT	ION of the output (enter a	number from the list below)
1. System pr	inter File name: WHER	EIS REPORT A
2. Another u	ser	
3. Computer :	file	
	1	
	Other options: H	REPLACE
Type: OK to con	tinue PRINT request. UN	DO to discard changes to page.
CANCEL to	cancel request.	
YOUR RESPONSE:		
f1=Help	f3=Cancel f4=Undo	f8=0K

• Hit "PF8" to complete the transaction.

• The report is now in a VM file which can be edited or printed in the usual ways.

20. Searching & Reporting in DEPOT DEVICE

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The *techniques* described above for the *DEPOT INVENTORY* database are also applicable to the *DEPOT DEVICE* database; however, only the FULL and BRIEF displays are defined.

VI. Non-Prism Reports

21. CMS-Level Reports

Certain types of reports require special processing to display only the record elements of interest, *i.e.* selected entries in the Location or Maintenance Histories. These reports are produced by CMS EXECs located on the DEPOT disk: you must log on to VM, type GIME DEPOT 191, and issue the relevant command for the report. Selection of the records for the report is controlled by each EXEC.

N.B.: these reports are **NOT** available from the Prism environment. The appropriate EXECs must be invoked from CMS.

Since the list of programmed reports is growing, they are not listed here. They are described in Reference [5].

VII. References

1.

- 1. Prism is a SPIRES application development system developed and marketed by Stanford University.
- 2. SPIRES (Stanford Public Information REtrieval System), is a database management system developed and marketed by Stanford University.
- 3. A general overview of DEPOT is given in SLAC-PUB-5166: *DEPOT*: *Database for Electronics Parts and Other Things*, by C. Logg, P. Clancey, and G. Crane.
- 4. A description of the standard nomenclature used for locations in DEPOT is in ADDOC #1: SLC/SLAC Location Specification Proposal, by C. Logg.
- 5. A description of various special reports, available on VM or the
 MCC/SLC VAX, is in ADDOC #9: DEPOT Database Reports & Utilities, by P. Clancey and C. Logg.

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