

Program

INDEX

A copy of the current database source files will reside in a READ ONLY directory with the logical name of REF_DBSFILE. You may look at or print these files, but modifications can be made only through the EDITDBS procedure. The CMS library for these files will be CMS_DBSFILE. If you merely want to look at the contents of the file QUADLI10.DBS, you may

\$ TYPE REF_DBFILE:QUADLI10.DBS

or look at the file with your favorite editor. You will NOT be able to save a modified file back into the reference directory.

You may also obtain a copy of any SLC database source file (or any older version) by using the SLCCMS FETCH command. Assuming you wish to look at the QUADLI10.DBS file, the following commands will leave a copy of the file in your default directory.

\$ SLCCMS SET LIBRARY CMS_DBFILE

\$ SLCCMS FETCH QUADLI10.DBS "an informative comment"

FIND_DBFILE

To look at a file, you will need to know the filename. In most cases the filename is simply the concatenation of the primary and micro names (i.e. QUADLI10.DBS), but there are some cases where the filename is not easily derivable. FIND_DBFILE will locate the filename(s) for you. To make this search as quick as possible FIND_DBFILE will search files in a specific order based upon the information you provide. In the worst case a complete search of all files may be necessary to find the requested device.

\$ FIND_DBFILE QUAD will list all files that have QUADs in them.

\$ FIND_DBFILE QUAD LI10 will list only those files with QUADs in LI10.

\$ FIND_DBFILE QUAD LI10 301 will list only that file that has this device.

A lengthy search would be necessary to determine that a non-existent device was not in any file.

EDITDBS

Since the database files will no longer be directly accessible, you will need to use SLCCMS to reserve a file before making changes. The new procedure EDITDBS written by Lawrence Searcy will make this fairly painless. EDITDBS will let you specify a filename (if you know it) or a device (e.g. QUAD,LI10 or QUAD,LI10,301). From your own account, type any of the following

\$ EDITDBS filename

\$ EDITDBS primary micro

\$ EDITDBS primary,micro,unit

The parameters may be separated by commas or spaces. If a device is specified, EDITDBS will call FIND_DBFILE to get the filename containing that device. Once a valid DBS filename is found, EDITDBS will do the following:

1. CMS RESERVE the file and prompt for your comment. SLCCMS will leave a copy of the database source file in your default directory.
2. EVE the file. If you plan to do a DBEDIT you MUST make a MiniEdit file as well as modifying the source file. The MiniEdit filename MUST be "Your.Username\$Original.Filename". This file MUST contain only the lines you wish to DBEDIT, not the entire source file.
3. TESTDBGGEN the full DBS file. You may skip this step for very trivial changes, but it is strongly recommended to check for syntax errors.

4. CMS REPLACE the file. SLCCMS REPLACE will delete ALL versions of the specified filename from your directory.
5. DBEDIT "Your_Username\$Original_Filename" on either SLC or MCC.

Prompts will guide you and remind you of the steps needed. You will be asked whether you are ready to REPLACE the file and whether you want to do a DBEDIT. If you do not complete the changes in a single session, you may leave the file RESERVED and in your directory. The next time you call EDITDBS for that file, it will find that you already have the file and not attempt to RESERVE it. It will ask if you want to EDIT the file or go directly to TESTGEN and REPLACE. If you want to DBEDIT an existing MiniEdit file, you may use the same procedure. The MiniEdit file MUST have a name in the standard edit format "Your_Username\$Original_Filename". EDITDBS will recognize that the file is a MiniEdit file and ask if you want to DBEDIT.

When you reserve a file from CMS, you will be warned if the file is already reserved by someone else and asked if you want to continue. The file may still be reserved, but ALL parties have an obligation to see that the all of the changes are merged correctly back into the resultant file.

For quick online help, type \$EDITDBS.

MAKING A MINIEDIT FILE

Assume you wish to change the DVI secondary for device QUAD:LI10,301. In addition to modifying the original source file QUADLI10.DBS, you must create a MiniEdit file, for example KKV\$QUADLI10.DBS.

While you are editing the original file, the easiest way to make a MiniEdit file is to create a second buffer (e.g. KKV\$QUADLI10.DBS). Then copy the lines you have changed to the new buffer. You will also need the device specification and the closing >. The new file would contain only

```
<:QUAD:LI10,301;
:DVI : = 0.0, 100.0;
>
```

For help with problems or answers to questions, please contact me at x2682, or send mail to KKV on the SLC VAX.

Support for Long Messages from Micros

February 15, 1990

Author: Nan Phinney
Panel Changes: None

Subsystem: All
Documents: No

User Impact: Small
Help File: None

The message service utilities for communicating with the micros have been enhanced to allow transfer of longer data blocks. The previous limit was 8 Kbytes, unless a special utility was used which only supported transfers involving a single micro. Now even multi-micro transfers may have buffers up to 32 Kbytes.

This improvement is largely transparent to the user. The only applications immediately affected are the Final Focus deflection scans and the BPM buffered data acquisition. Previously, deflection scans were broken into two subscans if there were more than 30 points. This is no longer necessary, so the scans will be faster. For BPM buffered data, the number of pulses that could be read for multiple BPMs was limited by the 8K buffer size. Now up to 250 points may be taken even with four BPMs selected. Further improvements to the user interface for buffered data are planned in the future.

New MPS/PPS/Access Index

*February 15, 1990***Author:** *Daniel Van Olst***Subsystem:** *MPS, PPS***User Impact:** *Small***Panel Changes:** *Many***Documents:** *No***Help File:** *No*

A new index has been created for MPS, PPS, and access panels. This index can be selected from the main Index panel. Most buttons lead to familiar panels, such as the PPS panels. Some buttons go to panels which are new, such as LINAC MPS or BSY access.

Most of the existing access procedures and panels are due for review, and will be updated and reorganized in upcoming weeks. In addition, alarm panels are planned for various machine regions, and these panels will appear on the MPS/PPS/Access index.

New System Brownout Panel

*February 15, 1990***Author:** *Daniel Van Olst***Subsystem:** *All***User Impact:** *Small***Panel Changes:** *Few***Documents:** *No***Help File:** *Yes*

With the new access index, the old System On/Off panel (from the main index) has been revised, and is now the System Brownout panel.

This panel will now be used for brownouts, and possibly other situations where we wish to shut down the entire machine. The old brownout buttons are still present, and area-off buttons are provided as a backup to the Primary Brownout and Backup Brownout buttons.