H-2. get_params

1.0 General Information

1.1 Application Description

This program populates the *seg*, *segoper*, *opersacsma*, *opersnow17*, and *operunithg* database tables from NWSRFS PUNCHSEG output. If the tables already have data in them, the user will have the choice of either unloading and deleting all of the rows or simply updating the tables. The main program is written in ecpg/C and the unload/delete function is written in Tcl.

1.2 Design Considerations

The program parses the needed information from NWSRFS fcinit punches of segment definitions. See NWSRFS User Documentation for more information.

The list of operations the program has the ability to parse is given in Attachment A. Database tables currently only exist for the SAC-SMA, SNOW-17, and UNIT-HG operations. Operations that are not set up for parsing by the program must be included in the 'notsetup' list (see Attachment A) if they are to be included in the *segoper* table.

See Attachment B for a simplified (procedural?) flow chart.

1.3 Enhancements/Bug Fixes/Changes

Build OB7.2

This application was updated to take into account the change in the version of Tcl/Tk, the upgrade of the OS in ob7.2, and the change in RDBMS from Informix to Postgres. Documentation was updated to reflect this change.

2.0 Configuration Information

This program uses the following apps_default tokens:

adb_name	archive database name
adb_dir	archive base directory

A log file is written to $(adb_dir)/logs/nwsrfs/get_params.log

The unload files for the database tables are created in the directory $(adb_dir)/data/nwsrfs. File names correspond to each of the database tables and are date stamped.

The input files are expected to be in the directory $(adb_dir)/data/nwsrfs.

3.0 User How-To

This application is not available via arcmenu; it can only be run at the command line. The first step is to create the punch file of segment definitions that will be used as input to the program (see NWSRFS User Documentation for help with this). The resulting segment punch can have any name but must be placed in $(adb_dir)/data/nwsrfs.

The program can be run on the command line by simply typing *get_params*. Optional command line arguments control the 'test' and 'debug' modes:

-t = test mode; do not write to database
-d = debug mode; write everything to the log file

The first thing the program does is ask the user to choose one of the following:

1. Unload and delete all rows before continuing
2. Continue and just add to/update current rows
3. Quit

(If the user chooses option 1, the Tcl program params_del will be run, unload files will be created as described in the Configuration Information above and the tables will be emptied.)

The program then asks the user for the name of the input file, which it will assume is in the $(adb_dir)/data/nwsrfs directory unless a full path is given.

4.0 Troubleshooting Information

A log file is created in $(adb_dir)/logs/nwsrfs. If the user still has problems, contact the RFC Support Group.

5.0 References

Archive Database data dictionary
NWSRFS User Documentation

Attachment A
Operations Lists

DEFINED FOR PARSING

- ADD/SUB
- ADJUST-Q
- CHANGE-T
- CHANLOSS
- CLEAR-TS
- LAG/K
- MEAN-Q
- NOMSNG
- RSNWELEV
- SAC-SMA
- SNOW-17
- STAGE-Q
- UNIT-HG
- WEIGH-TS

NOTSETUP LIST

- ADJUST-H
- ADJUST-T
- API-CIN
- API-CONT
- API-HAR
- API-HAR2
- API-HFD
- API-MKC
- API-SLC
- ASSIM
- BASEFLOW
- BEGASSIM
- CONS_USE
- DELTA-TS
- DWOPER
- FFG
- FLDWAV
- GLACIER
- INSQPLOT
- LAY-COEF
- LIST-FTW
- LOOKUP
- LOOKUP3
- MERGE-TS
- MULT/DIV
- MUSKROUT
- PEAKFLOW
- PLOT-TS
- PLOT-TUL
- RES-J
- RES-SNGL
- SAC-PLOT
- SARROUTE
- SNOW-43
- SS-SAC
- SSARRESV
- STAGEREV
- STAT-QME
- SUMPOINT
- SWB-NILE
- TATUM
- TIDEREV
- WATERBAL
- WY-PLOT
- XIN-SMA

Attachment B
Flow Chart