Documentation
For
cr_rvrcrit, OB5 release
October 7, 2004

1.0 General Information

1.1 Overview

This application was written for use in the OB5 post installation. In Build OB5 many of the columns in the riverstat table are merged into the rivercrit table, and the riverstat table becomes obsolete. Prior to OB5, some applications used the rivercrit table and other applications used the riverstat table for information that was stored in both tables. This application is intended to aid an office in defining the rivercrit table if it has not previously been populated with data. If the rivercrit table has previously been populated with data, the office should not use this application. If the office also has data in the riverstat table, the office may need to manually merge the tables. This application has 3 files, these are:

run_rvrcrit (ksh script)
cr_rvrcrit (esql/C)
cmd_ld-rvrcrit (ascii text file used by Informix dbload command)

The script, run_rvrcrit, is intended to be run manually at post install time if need be by the RFC. Any user can run this script.

1.2 Program Description

The application, cr_rvrcrit, is run by the run_rvrcrit script. The cr_rvrcrit application reads selected data from three IHFS database tables, *riverstat*, *floodcat*, and *crest*. The program outputs a load file called rvrcrit.unl. The second part of the run_rvrcrit script then runs the Informix dbload command to load the data into the archive database's rivercrit table. Any errors at load time are written to the file MIDNIGHT.err.

1.3 Assumptions

The following assumptions are made by the cr_rvrcrit program:

- Creates entries for locations that are in both the IHFS riverstat and IHFS floodcat tables only
- Columns *pe1* and *pe2* are hardwired to "H" and "G" for all entries
- The column *vdtime* is hardwired to "2004-10-01"

- The values in the IHFS DB table riverstat columns *wstg* and *action_flow* are translated to the archive db table rivercrit columns *fis* and *fisf*.
- The longitude is hardwired as negative to be consistent with the archive db's location table.
- When the program retrieves the record stage and flow from the crest table, it assumes the record stage and flow occur on the same date.
- No attempt is made to find corresponding data in the IHFS database for the following columns (which are set to null): *lowscreen*, *sigrate*, *screenrate*, *action*, *alert*, *highscreen*, *damscreen*, *lowscreenf*, *sigratef*, *screenratef*, *actionf*, *alertf*, *highscreenf*, *damscreenf*, *sigratet*, *screenratet*, *lowscreenq*, *sigrateq*, *screenrateq*, *fisq*, *actionq*, *alertq*, *bankq*, *floodq*, *modfloodq*, *majfloodq*, *recordq*, *highscreenq* and *damscreenq*.
- The following columns in rivercrit are set to null if the value retrieved from the IHFS DB is less than or equal to zero: *fis*, *bank*, *flood*, *modflood*, *majflood*, *record*, *fisf*, *floodf*, *modfloodf*, *majfloodf*, *recordf*, *lat*, *lon*, *da*, *zd*, *cb*, *pool*, *response_time*, *threshold_runoff* and *uhgdur*,
- The column *mile* in the rivercrit table is set to null if the value retrieved from the IHFS DB was less than zero.

2.0 Configuration Information

2.1 apps_defaults tokens

The script and/or program use the following apps_defaults tokens:

db_name	name of the IHFS database on ds1
server_name	Informix server name on ds1
adb_server	Informix server name on the ax
adb_name	name of the archive database on the ax

2.2 "housecleaning" requirements

There should not be a need to set up any purging of files. This script creates a single file that is overwritten each time it runs.

3.0 User How-To

Instructions on whether this application needs to be run, and how to run it, are provided in the OB5 post install instructions.

4.0 Troubleshooting Information

If the script or application fails, contact the RFC Support Group.

5.0 Maintenance Information

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