I.2-UNIX-OFS PROGRAM EXECUTION INFORMATION FOR OPERATIONAL FORECAST SYSTEM PROGRAMS ON UNIX SYSTEMS

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Scripts

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ofs

The script ofs can be used to execute the following Operational Forecast System programs:

- espinit
- fcinit
- fcst
- filecrat
- filesize
- goesdb
- ndfd2rfs
- ppdutil
- ppinit
- prdutil
- reorder
- sasmdb
- shefpars
- shefpost

The command format is:

```
ofs -p progname
    [-a]
    [-d]
    [-f fileset]
    [-g input_group]
    [-i in_file]
    [-m]
    [-o out_file_prefix]
    [-r reor_set]
    [-s]
    [-t]
    [-u user]
    [-x]
```

The only required parameter is the program to be executed which is specified by the -p option.

All other parameters are optional and will be provided values if not supplied on the command line.

Available options are:

Option	Description	Default Value
-a	Use manager executable directory specified by token mgr_rls	Use directory specified by token ofs_rls
-d	Use development executable directory specified by the token my_rls	Use directory specified by token ofs_rls
-f	OFS file set override	The file set specified by token ofs_level
-g	Input file group override	The group specified by token ofs_inpt_grp
-i	Input file to be used with program; file must be located in the appropriate programs input directory	None
-m	Suppress messages printed to the screen	Print messages
-o	Output file prefix or 'tty'; output files are date-time stamped and are placed in the user's output directory; if 'tty' is specified output is written to the terminal	progname
-p	Program name	None

Option	Description	Default Value
-r	Reorder file set override	The file set specified by the token ofs_reor_lvl
-s	Execute program on machine specified by token ofs_server	Execute program on machine from which ofs command is issued
-t	Output log information displayed to the terminal	Output to log file
-u	User name override; used to place output in output directory other than the submitting user's	Login user name ($LOGNAME)
-x	Conduct execution check only displaying additional information; program is not executed	Program will be executed

For example program FCINIT can be run with the script ofs as follows:

```
ofs -p fcinit -i defseg -o defseg

   or

ofs -p fcinit -i defseg -o defseg -d

   where '-d'    specifies executable directory $my_rls
```

Program FCINIT input files must be in the OFS input directory in a subdirectory named fcinit. For example:

```
.../nwsrfs/ofs/input/oper/fcinit
```

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fs5fcopy

The script fs5fcopy is used to copy from one set of OFS files to another. The command format is:

```
fs5fcopy -f user_in -t user_out

where  user_in  is the name of the input files set
       user_out is the name of the output files set
```

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ofs_reorder

The script ofs_reorder is used to reorder the OFS files. The command

format is:

```
ofs_reorder [user_in] [user_out]

where  user_in  is the name of the input file set
       user_out is the name of the output file set
```

ofs_reorder runs the following programs:

- FILECRAT to create the new OFS files
- PRDUTIL to define the data types in the new OFS files
- REORDER to reorder the old OFS files to the new OFS files

The following steps should be performed when reordering OFS files:

- create a backup of the old OFS files using script fs5fcopy
- if any file sizes are to be changed:
  - change the input file for program FILESIZE
  - run program FILESIZE
  - check the program and log output from FILESIZE for errors
  - copy the FILESIZE punch output file to the FILECRAT program input directory
- run the script ofs_reorder
- check the program and log output for programs FILECRAT, PRDUTIL and REORDER for errors
- run the program FCST using the old OFS files and the new OFS files and compare the program and log output
- copy the new OFS files to the old OFS files using script fs5fcopy

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Apps Defaults Tokens

The Operational Forecast System scripts and programs use the Apps Default System to set execution controls and path names (see Chapter I.2-UNIX-APPSDFLT [Hyperlink]).

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Program FCST MODs Management

MODs are stored in a file in the directory defined by:

```
<ofs_dir>/files/<ofs_level>/mods

where  <ofs_dir>    is the OFS file directory
       <ofs_level>  is the OFS file set
```

The name specified on the .INCLUDE statement is the file name in the directory.

The Interactive Forecast Program [Hyperlink] works on a Forecast Group basis and will read any existing MODs in the file named after the Forecast Group. It also places the MODs generated from the session

back into the same file. Therefore the file name should be the same as the Forecast Group name.

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OFS Locks

An OFS lock is a temporary file that indicates when a certain OFS file set is in use. A lock file is opened by a program either with read or write access rights. If a second program tries to open the same lock when a currently running program has already opened it with write access, the second program waits for a certain amount of time and then tries to open the lock again. If the second program cannot open the lock within a specified amount of time then it stops.

A complete description of the OFS locks is in Chapter IX.4A [Hyperlink].

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Temporary Files

The Hydrologic Command Language temporary files [Hyperlink] are opened in the /tmp directory. Each has the following appended to the file name:

.<procoess_id>.<host_id>

The process_id is the Unix process identifier for the process accessing the TEMP file and the host_id is the host identifier.

The files are removed upon completion of the program accessing them. However if the program ends unexpectedly then the files are not removed.

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