NAME

mbm_multiprocess - Macro to run mbprocess on the swath files referenced by a datalist using parallel processes.

VERSION

Version 5.0

SYNOPSIS

mbm_multiprocess -I*datalist* [**-X***nprocesses* **-H -V**]

DESCRIPTION

mbm_multiprocess is a macro used to effeciently process large numbers of swath data files by executing parallel instances of the program **mbprocess**. See the **mbprocess** manual page for a description of its operation.

The **-X***nprocesses* option sets the number of parallel processes that can be started by **mbm_multiprocess**. In general, the most efficient (fastest) execution of the overall command will be achieved when *nprocesses* equals the number of available CPUs or cores.

AUTHORSHIP

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SIMPLE DESCRIPTION OF BASIC OPTIONS

–H This "help" flag cause the program to print out a description of its operation and then exit immediately.

–I *datalist*
Sets the input datalist filename. A datalist is an ascii file containing a list of the input swath sonar data files to be copied and their formats. In the *datalist* file, each swath data file should be followed by a data format identifier, e.g.:

```
datafile1 11
datafile2 24
```

As discussed in the **MB-System** manual page, datalists may reference other datalists, allowing users to construct recursive datalist structures. This program uses the **MBIO** library and will read or write any swath sonar format supported by **MBIO**. A list of the swath sonar data formats currently supported by **MBIO** and their identifier values is given in the **MBIO** manual page.

–V Causes **mbm_multiprocess** to operate in "verbose" mode so that it outputs more information than usual.

–X *nprocesses*
This option sets the number of parallel, simultaneous **mbcopy** processes that may be run.

EXAMPLES

Suppose one has two format 88 Reson 7125 data files:

```
20110805_053612.mb88
20110805_054149.mb88
```

and that these files are ready to be processed with **mbprocess**. In order to execute the processing using multiple, parallel processes, use the macro mbm_multiprocess with a datalist file referencing the target

swath files as input:

mbm_multiprocess -Idatalist.mb-1 -V -X2

The macro prints out the following as the processing proceeds:

Running mbm_multiprocess...

Program <mbprocess>

Program <mbprocess>
Version $Id: mbm_multiprocess.1 1938 2012-02-22 20:58:08Z caress $
Version $Id: mbm_multiprocess.1 1938 2012-02-22 20:58:08Z caress $
MB-system Version 5.3.1904
MB-system Version 5.3.1904

Program Operation:

Program Operation:
Input file: 20110805_053612.mb88
Input file: 20110805_054149.mb88
Format: 88
Format: 88
Files processed only if out of date.
Files processed only if out of date.
Comments embedded in output.

Comments embedded in output.

**: Data processed - out of date - unlocked:
Input: /Volumes/MappingAUVOps2011/test/20110805_054149.mb88
Output: /Volumes/MappingAUVOps2011/test/20110805_054149p.mb88
**: Data processed - out of date - unlocked:
Input: /Volumes/MappingAUVOps2011/test/20110805_053612.mb88
Output: /Volumes/MappingAUVOps2011/test/20110805_053612p.mb88

Note that the terminal messages from the two **mbprocess** instances are mixed because the processes are executed in parallel.

SEE ALSO

mbsystem(l), **mbprocess**(l)

BUGS

In insetos sao permitidos. Keine insekten hier gestattet ist.