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 efficiently 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.

MB-SYSTEM AUTHORSHIP

David W. Caress
  Monterey Bay Aquarium Research Institute
Dale N. Chayes
  Center for Coastal and Ocean Mapping
  University of New Hampshire
Christian do Santos Ferreira
  MARUM - Center for Marine Environmental Sciences
  University of Bremen

AUTHORSHIP OF THIS PROGRAM

Christian do Santos Ferreira
  MARUM - Center for Marine Environmental Sciences
  University of Bremen

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>
> 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(1), **mbprocess**(1)

BUGS

In insetos sao permitidos. Keine insekten hier gestattet ist.