

MMUNIX - UNIX-like commands: cat dir grep more

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UNIX-like Commands for the MaxiMite

The following four UNIX-like commands are implemented as “implied RUN commands” (see page 24 of the MMBasic manual for implied RUN commands):

```
cat   catenate files to output
dir   list files
grep  search files using a pattern or string
more  file pager and hexdump
```

These commands support the following useful command-line features:

- File and directory name globbing with * and ?
- Paths can be separated with \ as usual or with /
- Input can be redirected with < FILE
- Output can be redirected with > FILE or » FILE (append)

These are implied RUN commands that you can rename, for example rename file CAT.BAS to MMCAT.BAS to rename cat to mmcat.

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cat - CAT.BAS

Catenates one or more files to output.

Usage:

```
cat PATHNAMES
< FILE      redirect input from the specified FILE
> FILE      redirect output to the specified FILE
>> FILE     append output to the specified FILE
PATHNAMES  list of dir/file paths to catenate, using * and ? wildcards
```

When PATHNAMES is not provided or a - argument is provided then this command reads input from standard input.

Example:

```
Catenate all .bas files in the project directory into bundle.bas:
```

```
cat project/*.bas > bundle.bas
```

dir - DIR.BAS

Lists the contents of one or more directories.

Usage:

```
dir [-a][-p] PATHNAMES
-a      show hidden files and directories
-p      do not pause
< FILE  redirect input from the specified FILE
> FILE  redirect output to the specified FILE
>> FILE append output to the specified FILE
PATHNAMES list of dir/file paths to list, using * and ? wildcards
```

When PATHNAMES is not provided, lists the content of the current directory.

Example:

```
List the contents of the project and reports directories without pausing:
dir -p project reports
```

grep - GREP.BAS

Searches one or more files for a regex pattern or string match.

Usage:

```
grep [-f][-n] "PATTERN" PATHNAMES
-f      fast string matching
-n      include line numbers in the output
< FILE  redirect input from the specified FILE
> FILE  redirect output to the specified FILE
>> FILE append output to the specified FILE
PATTERN regex composed of . [^;] ? * + ^ $
PATHNAMES list of dir/file paths to search, using * and ? wildcards
```

Option -f matches a string provided as "PATTERN", rather than a regex, and is much faster.

Regex syntax:

```
.      matches any character
[abc] matches a, b or c
\.    matches ., likewise <code>\?</code> matches ?, <code>\\</code> matches \
and so on
?     matches zero or one of the previous character, reluctantly
```

```
*   matches zero or more of the previous character, reluctantly
+   matches one or more of the previous character, reluctantly
^   matches begin of text
$   matches end of text
```

Example:

```
Search and display the lines with line numbers of .bas files in the project
directory that have the text "Usage" at the start of the line:
grep -n "^Usage:" project/*.bas
```

more - MORE.BAS

Page through one or more files or display hexdump.

The pager pauses after each page is displayed, use keys to advance:

```
SPACE next page
ENTER next line
ESC   quit this file
```

Usage:

```
more [-a][-n][-p][-r][-x] PATHNAMES
-a       show contents of hidden files
-n       add line numbers
-p       do not pause
-r       show raw control characters
-x       show hex dump
< FILE  redirect input from the specified FILE
> FILE  redirect output to the specified FILE
>> FILE append output to the specified FILE
PATHNAMES list of dir/file paths to display, using * and ? wildcards
```

Option -x displays a hexdump and ASCII table of the file contents.

Example:

```
Display all .bas files in the project directory and its subdirectories:
more project/*.bas project/**/*.bas
```

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