

NAME: DFIXUP.EXE

PURPOSE: Processes standard dBASE₁-type program files, and writes properly indented output files. In addition, dFIXUP detects and reports on programming mistakes, and displays some file statistics.

SYNTAX: DFIXUP [filespec1 ... filespecN]

filespec can be one of the following:

The name of a .PRG file, with optional .PRG extension.

The name of a .CLP file (used by the Clipper₂ compiler), with optional .CLP extension. All .CLP files must be prefixed with an '@', which is consistent with the syntax used by the Clipper compiler. .CLP files contain the names of files to be processed, one filename per line, with optional .PRG file extension.

The dFIXUP command line supports both path names and wildcards.

If no command line arguments are given, dFIXUP will prompt you for an input file to be processed.

For files not prefixed with an '@', dFIXUP will automatically assume a .PRG file extension. For all files prefixed with an '@', a .CLP extension is assumed. If you have a file (either .CLP or .PRG) without an extension, you can process it by including a period after the filename, e.g. in essence saying that the file extension is blank.

USAGE: dFIXUP will write all .PRG files specified into files with the same basename, but with an .OUT extension. The following are examples of some input file names, and their resulting output file names:

PAYROLL	PAYROLL.OUT
SAMPLE.PRG	SAMPLE.OUT
C:\DBASE\TEST	C:\DBASE\TEST.OUT

1 dBASE is a registered trademark of Ashton-Tate

2 Clipper is a registered trademark of Nantucket

All specified files will be indented as required, and comments will not be removed.

If you do not specify one or more files to be processed on the command line, dFIXUP will ask you for the name of a single .PRG file to be processed. In this interactive mode, both path names and .CLP files are supported, while wildcards are not.

In addition to the input file name, you will also be asked to supply an output file name (which must be different from the input file; if this is not the case, the input file will be destroyed), as well as whether to indent the file and whether or not to remove all comment lines.

If you press ENTER without a filename in response to the output file prompt, dFIXUP will assume the basename of the input file with an .OUT extension.

If you answer 'N' to the prompt about indenting, dFIXUP will remove all indentation from the output file specified. This can be useful after development is complete, and disk space is tight.

If you answer 'Y' to the prompt about indenting, or if you process files from the command line, dFIXUP will prefix each line of your program with three spaces each for each level of indentation. This is also the default if you press ENTER in response to this prompt.

If you answer 'Y' to the prompt about removing comments, dFIXUP will remove all lines that start with a single asterisk ('*') or the keyword NOTE. dFIXUP will not remove comment lines starting with two ampersands ('&'). Pressing ENTER in response to this prompt is equivalent to pressing 'N'.

ERRORS: dFIXUP will detect the following kinds of errors:

Mismatched statements:

```
IF - ELSE - ENDIF
DO WHILE - ENDDO
DO CASE - CASE - OTHERWISE - ENDCASE
FOR - NEXT
```

Example:

```
DO WHILE .T.
  DO MAINMENU
ENDIF
```

Unbalanced statements:

```
IF - ENDIF
DO WHILE - ENDDO
DO CASE - ENDCASE
FOR - NEXT
```

Example:

```
IF AT (ANSWER, 'YyNn') > 0
  IF UPPER (ANSWER) = 'Y'
    ...
  ELSE
    ...
ENDIF
...
...
<EOF>
```

Extra statements:

```
ELSE
OTHERWISE
```

Example:

```
IF upper (STATE) = 'CA'
  ...
ELSE
  ...
ELSE
  ...
ENDIF
```


If any errors are found during the processing of a file, dFIXUP will display the file statistics, and then wait until you press a key.

EXAMPLE: Command line use of dFIXUP:

```
DFIXUP PAYROLL.PRG
DFIXUP AR*.PRG AP*.PRG
DFIXUP @GL.CLP
DFIXUP *.PRG
```

Interactive use of dFIXUP:

```
DFIXUP
```

BATCH FILES:

dFIXUP will set the DOS ERRORLEVEL if it terminates with an error condition. These errors and the corresponding exit codes are:

Couldn't open input file	1
Couldn't open output file	2
Error writing output file	3
dFIXUP aborted by user	6
Couldn't install interrupt handler	7
Couldn't allocate memory for file list	8
Couldn't open .CLP file	9

dFIXUP will try to diagnose and explain these errors if possible.

You can test against these exit code using a IF ERRORLEVEL <n> statement in your batchfiles.

SPECS: dFIXUP has the following limitations and requirements:

DOS version:	MS/PC-DOS 2.0 or higher
Program file length:	Unlimited
Indentation levels:	64 levels
Files per run:	256 files
File path length:	40 characters
Memory requirements:	28KB plus up to 41 bytes for each file processed.
Program line length:	254 characters, as in dBASE III
File size:	17009 bytes
File date & time:	5-25-88, 8:00pm

If the file you receive is different in size, or has a different date stamp, do not use the program. It may be a Trojan Horse or infected with a Virus.

dFIXUP was implemented using Microsoft C3 Version 5.0, using the standard C runtime library.

COMMENTS: dFIXUP 3.6 is exactly the same as dFIXUP 3.5, with the exception that 3.6 has a graphical progress display.

All comments, suggestions and contributions, if any, should be directed to the program's author:

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