

AS(I)

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NAME

as — assembler

SYNOPSIS

as [-] [-o **ofile**] name ...

DESCRIPTION

As assembles the concatenation of the named files. If the optional first argument - is used, all undefined symbols in the assembly are treated as global.

The output of the assembly is left on the file **a.out**. If the optional argument -o followed by a file name is given, the output will be left on that file without affecting a previously existing **a.out** file. It is executable if no errors occurred during the assembly, and if there were no unresolved external references.

FILES

/lib/as2 pass 2 of the assembler
/tmp/atm[1-3]? temporary
a.out object

SEE ALSO

ld (I), nm (I), adb (I), strip (I), a.out (V), 'UNIX Assembler Manual'.

DIAGNOSTICS

When an input file cannot be read, its name followed by a question mark is typed and assembly ceases. When syntactic or semantic errors occur, a single-character diagnostic is typed out together with the line number and the file name in which it occurred. Errors in pass 1 cause cancellation of pass 2. The possible errors are:

) Parentheses error
] Parentheses error
< String not terminated properly
* Indirection used illegally
. Illegal assignment to '.'
A Error in address
B Branch instruction is odd or too remote
E Error in expression
F Error in local ('f' or 'b') type symbol
G Garbage (unknown) character
I End of file inside an if
M Multiply defined symbol as label
O Word quantity assembled at odd address
P '.' different in pass 1 and 2
R Relocation error
U Undefined symbol
X Syntax error

BUGS

Symbol table overflow is not checked. X errors can cause incorrect line numbers in following diagnostics.