

NAME

as – assembler

SYNOPSIS

as [-] [-o objfil] 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 *objfil*; if that is omitted, **a.out** is used. 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), db(I), a.out(V), *UNIX Assembler Reference Manual* by D. M. Ritchie.

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
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.