# NAME

as – assembler

#### SYNOPSIS

**as** [ – ] 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**. It is executable if no errors occurred during the assembly, and if there were no unresolved external references.

## FILES

/etc/as2 pass 2 of the assembler /tmp/atm[1-4]? temporary a.out object

# SEE ALSO

ld(I), nm(I), db(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.  $\mathbf{x}$  errors can cause incorrect line numbers in following diagnostics.