

NAME

ratfor — rational FORTRAN dialect

SYNOPSIS

ratfor [option ...] [filename ...]

DESCRIPTION

Ratfor converts a rational dialect of Fortran into ordinary irrational Fortran. *Ratfor* provides control flow constructs essentially identical to those in C:

statement grouping:

```
{ statement; statement; statement }
```

decision-making:

```
if (condition) statement [ else statement ]
```

```
switch (integer value) {
```

```
    case integer:    statement
```

```
    ...
```

```
    [ default: ]    statement
```

```
}
```

loops: while (condition) statement

```
for (expression; condition; expression) statement
```

```
do limits statement
```

```
repeat statement [ until (condition) ]
```

```
break
```

```
next
```

and some syntactic sugar to make programs easier to read and write:

free form input:

multiple statements/line; automatic continuation

comments:

```
# this is a comment
```

translation of relationals:

>, >=, etc., become .GT., .GE., etc.

return (expression)

returns expression to caller from function

define: define name replacement

include:

```
include filename
```

Ratfor is best used with *f77(1)*.

SEE ALSO

f77(1)

B. W. Kernighan and P. J. Plauger, *Software Tools*, Addison-Wesley, 1976.