

## Description

do executes *stmt* or *stmts* one or more times, until *exp* is zero.

## Syntax

```
do stmt while (exp)
```

```
do {  
    stmts  
} while (exp)
```

where *exp* must evaluate to a real scalar.

## Remarks and examples

One common use of do is to loop until convergence:

```
do {  
    lasta = a  
    a = get_new_a(lasta)  
} while (mreldif(a, lasta)>1e-10)
```

The loop is executed at least once, and the conditioning expression is not executed until the loop's body has been executed.

## Also see

[M-2] **break** — Break out of for, while, or do loop

[M-2] **continue** — Continue with next iteration of for, while, or do loop

[M-2] **for** — for (*exp1*; *exp2*; *exp3*) *stmt*

[M-2] **while** — while (*exp*) *stmt*

[M-2] **Intro** — Language definition

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