Free format code

None of the old 5th/6th column indenting stuff! Yahoo!

Array syntax

```
REAL :: a(nx,ny,nz), b(nx,ny-9,nz)
a(:,10:,10:20) = b
```

Derived data types

Specify your own types of data

```
Type adams_bashforth
   Complex(Double) :: force(:,:), force2(:,:), current(:,:), rhs(:,:)
   Real(Double)    :: coordinate(:,:,:)
End Type adams_bashforth

Type(adams_bashforth) :: temperature
```

In the main program:

```
temperature%coordintate(:,:,1) = 1
```

Modules

New type of program unit
Shares data and procedures between program units
e.g.

```
MODULE point_module

  TYPE point
    REAL :: x,y
  END TYPE point

CONTAINS

  FUNCTION addpoints(p,q)
    TYPE (point),INTENT(IN) :: p,q
    TYPE (point) :: addpoints
    addpoints%x = p%x + q%x
    addpoints%y = p%y + q%y
  END FUNCTION addpoints

END MODULE point_module
```

The main program would contain:

```
USE point_module
TYPE (point) :: px, py, pz
  ...
pz = addpoints(px,py)
```