

Tabula Vigilans - new functionality as from V. 1.31 (October 2004)

- **#include statement**
- **declaration of tables without size**
- **switchon ... case statements**

#include

It is now possible to split a Tabula Vigilans script into two or more files using the *#include* statement. I have a large script called 'scorebld.tv', over 2000 lines of code in length. In order to be able to work with a smaller file - the one where the 'current development' is, I can now split the script into two: one called 'sb1.tv' and the current one (in development) called 'sb2.tv'. At the top of the 'sb2.tv' file I put the statement:

```
#include "sb1.tv"
```

and by invoking the script as

```
tv sb2 <RETURN>
```

everything works as if it were one file.

Caution: Remember that error messages with line numbers will only refer to the file with the error in - so you will have to work out which file the error is like to be in. I have not, thus far, used more than two #include files, but in principle any number of files could be included.

Declaration of tables without size

As long as tables are filled from an external file using **fill_table** it is possible to declare them without size - the compiler will create a table of the correct size automatically. For example, the following will work correctly:

```
[At the top of the file]
table PTABLE[]
```

```
[and subsequently - probably at somewhere near the beginning of start()]
PTABLE fill_table "pitches.txt"
```

and "pitches.txt" may contain any number of (e.g.) MIDI note-numbers, as:

```
70 73 76 45 84 60 62 ...[etc.]
```

switchon ... case statements

In order to avoid chains of **if..then..else..** statements it is now possible to use the **switchon ... case** construction.

The following script, 'swdemo.tv' should exemplify its use:

```
start()
{
    b = int(random(0, 3.999))
    while(1) {
        cnt += 1
        message "\n"
        print cnt, 4, 0
        switchon b {
            case 0: {
                message ": Case 0 chosen"
```

```
        b = int(random(0, 3.999))
    }
    case 1: {
        message ": Case 1 chosen"
        b = int(random(0, 3.999))
    }
    case 2: {
        message ": Case 2 chosen"
        b = int(random(0, 3.999))
    }
    case 3: {
        message ": Case 3 chosen"
        b = int(random(0, 4.999))
    }
    default: {
        message ": No action. There were "
        print cnt, 4, 0
        message " iterations.\n"
        end
    }
}
}
```