

PROGRAMMING GUIDELINES

/ style

Code

- * AT MOST one statement per line

Comments

- * One comment per line
- * Never place comments on the same line as code
- * Place comments before the code

```
void testFunction ()  
{  
    // reset counter  
    counter = 0;  
  
    / / this comment is incorrect (space between slashes)  
  
    // increment counter  
    counter = counter + 1;           // no comment here  
}
```

Intonation

Braces

Naming Convention

TRAPS & PITFALLS

- * Operator Precedence
- * '=' vs. '==' (CINCO was BIT BY THIS BUG!)
- ~~* '<' vs. '<='~~
- ~~* '>' vs. '>='~~
- * Misleading comments
- * Number overflow
- ~~██████████~~
- * Uninitialized variables
- * Misplaced brackets
- * Overcomplicated statements
- * Infinite loops

DEBUGGING

- * Write clean code to start with
- * Use the SYS_Fatal command
- * Binary search method

OPERATORS (Unary, Binary, Relational)

!

-

=

++

--

+

+=

-

-=

*

*=

/

/=

~~operator~~

&&

||

==

!=

>=

>

<=

<

EXPRESSIONS (Simple and Complex)

()

Order or operations

STATEMENTS

CONTROL (if/while)

Braces

if { BRACES REQUIRED! }
else
while (MEG BUC w/ NESTED WHILES)

break

Labels

goto

return

FUNCTIONS

Declaration

Return type

Parameter list

Usage

Parameter passing

Local variables

Returning values