

Computer Science CSCI 261

Computer Architecture and Assembly Language

*Dr. Peter Walsh
Department of Computer Science
Vancouver Island University
peter.walsh@viu.ca*

Systematic Testing Approaches

- System testing
 - using program input/output
 - used in CSCI 160 and SSBC (make runtest)
- Component Testing
 - using function output values
 - used in CSCI 161 and HC11 (make bats)

Component Testing

- Ad Hoc Approach

...

```
x=0; y=7;
```

```
if (sum(x, y) != 7) {  
    print "Error message" ...  
}
```

- Cew Approach

...

```
cew_Ncase(x=0; y=7;;, sum(x, y) , 7)
```