

Getting Started in the Lab

Invoking Specman

- Run the following commands:
 - `exec tcsh`
 - `source /tools/specman/specman.sh`
 - Write your e file (s) and save them with `.e` extension, say **file.e**
 - Run the following command
 - `specman -c "load file.e;test;"`

Example : Hello World

```
<
// This program prints hello world

extend sys {
  run() is also {
    out ("Hello World");
  };
};
>
```

File Name: hello.e

Commands

```
$ specman -c "load hello.e;test;"
```

On running the above command you get the following output


```
$ Hello World
```

Another example : enumerate.e

```
<' type packet_protocol: [];  
  extend packet_protocol:[Eth,IEEE,for];  
  type packet_kind:[good,bad](bits:1);  
  
  struct data_types3{  
    packet_type : packet_protocol;  
    packet_val : packet_kind;  
  };  
  extend sys{  
    data : data_types3;  
    run() is also{  
      gen data; print data;  
      gen data; print data;  
      gen data; print data;  
    };  
  };  
'>
```

```
$ specman -c "load enumerate.e;test;"  
$Welcome to Specman Elite (4.3.6) - Linked on Mon May 30 11:24:07 2005  
  
Loading enumerate.e ...  
read...parse...update...patch...h code...code...clean...GC(sys)...  
  
Doing setup ...  
Generating the test using seed 1...  
Starting the test ...  
Running the test ...  
  data = data_types3-@0: data_types3  
  -----  
  @enumerate  
  0 packet_type:      for  
  1 packet_val:      bad  
  data = data_types3-@1: data_types3  
  -----  
  @enumerate  
  0 packet_type:      for  
  1 packet_val:      bad  
  data = data_types3-@2: data_types3  
  -----  
  @enumerate  
  0 packet_type:      Eth  
  1 packet_val:      good  
No actual running requested.  
Checking the test ...  
Checking is complete - 0 DUT errors, 0 DUT warnings.
```

Generate within
Permissible values



Random Generation

```
$ specman -c "load  
enumerate.e;test;test -seed=random"
```

**Try this and see the different values
generated in each run**