Figure A: Test Program Layers

TestProgram “Prod” Container
(Contains All Program Components)

- OnStart
- OnLoad “1”
- OnLoad “2”
- OnInit
- OnPowerDown
- OnUserDefined “2”

Flow “#1”

Flow “#2”

EntryPoint Objects

Where:
- ● = lowest-level TestModule
- ○ = mid-level TestModule
- ◇ = highest-level TestModule
Test Program Block: top level test program construct or container
There can be one or more of these blocks and they may be domain name or unnamed (global).

EntryPoint: A special program level tester activated task that is a pointer to a TestModule. There are a set of general (via this spec) EntryPoint entities such as OnStart, OnReset, etc. these can be domain named or defaulted unnamed. If a given Flow declares a domain named EntryPoint (i.e. OnLoad "2") then when an "on-load" tester system interrupt occurs, then execution will flow to the Active Flow to the named object.

Flow Block: One or more program flows (ie. Prod, Finaltest, Char ...) Special SubFlowNode decomposing a complete test flow.

FlowNode: Node in a flow: contains a TestModule or SubFlow Reference (See Figure #1)

SubFlowModule: (See Figures #2B, 4 and 5)

TestModule: (See Figures #, 2A and 3)

BinNode: Not yet discussed/defined (Need two natures, terminal and flow-through)

TaskNode: Is this non-test type node? Is it needed for non-test activities?

DecisionNode: Is this non-test type node? Is it needed for flow decisions?
Figure 1: A FlowNode Diagram with Its Named Parts

FlowNode Elements Terms
1. FlowNode
2. EntryPath
3. PreActions Block
4. Module Block
5. PostActions Block
6. Arbitor Block
7. ExitActions Block
8. ExitPath
9. SkipPath

Informative Terms:
Pre-
Body
Post-
Figure 2: Variations on What a FlowNode Module Is a TestModule
Figure 3: Variations on TestModule with Three “out-flow” Configurations

3A: Two Exits Joint to One Point for Later Arbitor Action
3B: Classic Two Exits: One Pass, One to Failure Terminal Point
3C: By Pass, Two Exits: Normal Pass to Next TestModule, One that Flows next Around TM

Figure 4: An Example of a FlowNode containing SubFlowModule with Reusable FlowModules of Various “out-flow” Configurations
Note: TMA and TMD both reference TestMethod “1”. All other TMs reference different TestModules (#2-5)