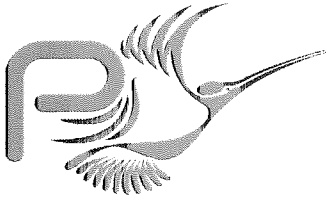


TIS
INCIDENT REPORT

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Project: TIS		Incident Number/Reference: 054	
DESCRIPTION (data and sequence of actions leading to fault, details of actual and expected response)			
<p>If an Illegal device name is given then on NT 4.0 the system displayed the application screen and took over 1 minute to terminate.</p> <p>On Windows 2000 an exception is raised if the driver name is infeasible for a machine.</p> <p>"GNAT.SOCKETS.SOCKET_ERROR : [10038] Socket operation on nonsocket"</p> <p>Found in test: Test of NT installation</p> <p>Supporting documentation attached YES/NO Continued YES/NO</p>			
Found during: (use actual project stages)		Reqs / Sys spec / Security Spec / Proof of Spec / Formal Design / INFORMED Design / Proof of Design / Code / Code Proof / Integration / Sys test / Acceptance	
Date: 08/09/2003		Signature of Originator:	
EVALUATION (include list of items affected, details of work required, other similar faults, tests to be re-run)			
<p>In tis.adb distinguish between driver start-up actions and the "real" TIS application and only start the real TIS application if the driver Start-up fails.</p> <p>Introduce a library procedure TisMain as a SPARK main program which encapsulates the "real" aspects of the tis application, then change the TIS procedure to be a harness</p> <p>CONTINUED.</p> <p>Continued YES</p>			
Classification:		Critical / Major / Minor / Interfaces / Test / No Fault	
Introduced during: (use actual project stages)		Reqs / Sys spec / Security Spec / Formal Design / INFORMED Design / Code / Integration / Sys test / Acceptance	
Date: 08/09/2003		Signature of Evaluator:	
RESPONSE (detail how incident is to be resolved, identify cause of problem, related faults and change requests)			
<p>Update as described in evaluation.</p> <p>Continued YES/NO</p>			
Date: 08/09/2003		Signature of Project Manager:	
IMPLEMENTATION (if applicable)			
Assigned to: janet		Signature of Project Manager:	
Item modified	Date/Version	Signature of Checker	Signature of Integrator
core\tis.adb *	1.16 → 1.17		
core\tismain.adb *	1.8 → 1.9 new 1.1		
support\tcpip.adb	1.8 → 1.9		
		Continued	NO

* note tis.adb v1.16 has been replaced by both these files.



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EVALUATION *CONTINUED*

Which initialises the test devices and then starts the TISMain

```
InitTestDevices(Success => OK)
```

```
if OK then
```

```
    TisMain;
```

```
end if;
```

TIS is no longer a spark program, the new library level procedure TISMain is a SPARK main program and allows analysis of the system data flow.

The annotations for the TisMain should be the same as those for the Tis

The problem on Win 2000 is due to the attempt to construct the image of the address of the socket in the case of a failure to connect within **support\tcpip.adb ConnectToSPRE** procedure. The exception handler should be modified so that it does not try and establish the socket address for the Debug output where such information cannot be constructed due to the device being invalid.

Analysis of this fault also highlighted the failure to reset the length of the SPREMachine name from the command line.