MULTI* Execution Profiler

- Enable Profiling with a Single Mouse Click - No Recompilation Required
- Run Program to Automatically Collect Profile Data
- Reports Display Where Your Program Spends Its Time by Function or by Source Line
- Click on a Line of a Report to Bring up Corresponding Source Code in Debugger Window
- Each Line of the Source is Annotated with the Amount of Time Spent on that Line
- Interlaced Source/Assembly Display Pinpoints Hot Spots to the Instruction Level (Useful for Finding Pipeline Stalls and Cache Misses)
- Use Information About Hot Spots to Improve Your Program
- Block Coverage Report Helps QA by Identifying Number of Times Each Basic Block is Executed

The MULTI execution profiler collects execution statistics and displays the information in several formats to help you isolate and examine hot spots in your program. It is an important tool in an overall methodology for improving program performance.

The Green Hills ROM monitor, instruction set simulator and in-circuit emulator servers all contain facilities for sampling the PC during program execution; this data is returned to the MULTI profiler for analysis. Programs do not have to be recompiled to be profiled.

MULTI interprets the information collected and produces a number of reports. No one report is ever sufficient; different reports are useful in different situations. In all cases, clicking on a line of a report causes the corresponding source code to be displayed in the debugger window; the source code is annotated with the amount of time spent executing each line. A single click will cause the assembly code to be interlaced with the source, so that you can pinpoint hot spots down to the instruction level. Once hot spots are isolated, the problem can be addressed by either rewriting the source code or by experimenting with various optimization strategies.

HOST SYSTEMS SUPPORTED:
PC/Windows, Sun/Solaris, Sun/SunOS, HP9000/HPUX, Alpha/OSF1, SGI/Irix, Aviion/DGUX, PC/SCO, PC/UnixWare, RS6000/AIX, DECstation, more.

PROCESSORS SUPPORTED:
i960® Sx, Kx, Cx, Jx, Hx Processor

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