



OPTA – Trace

Online Process Tracer and Analyzer

OPTA-Trace is an enhanced Tracing and Debugging utility for all HP Nonstop (Tandem) Guardian and OSS applications. With NO application source code changes, OPTA intercepts and logs application calls to the Nonstop Kernel operating system. OPTA-Trace supports ALL Nonstop applications types, TNS, TNS/R and TNS/E and supports ALL Nonstop Native and Non-Native programming languages.

Nonstop Kernel System procedure information captured by OPTA-Trace includes;

- Process Startup information(Startup-message, Assigns, Params and DEFINES)
- Process Shutdown information(Completion info, EMS alert, Saveabend)
- Parameter contents, Condition codes, Return values
- Open File information and File system errors
- Inter-Process Communication(IPC) – (message tag, \$receive info, user and System messages)
- TMF information(Current Transaction id), Pathway ServerClass_Send_
- Nonstop programming procedures, Nowait-IO procedures, Enscribe Input-Output
- C / OSS programs - dynamic memory management functions (malloc, free, calloc, etc).

OPTA-Trace enhances product development, debugging, testing and general program execution flow for Nonstop applications. Application-specific messages can be sent to OPTA-Trace for additional debugging capabilities.

How is OPTA-Trace being used?

Capture and Record Nonstop Application Transaction flow.

Capture, analyze and record Nonstop application transaction flows and statistics. One can quickly visualize the flow of Business Critical transactions through the system. All File system Input and Output, IPC, TMF, NonStop Kernel system procedure invocations are captured between all relevant processes.

Real-Time Debugger.

>> Inspect breakpoints may alter application event timing. With OPTA, application event timing is not altered; therefore production problems caused by timing or deadlock situations can be captured for analysis and repair.

>> Identify Memory leaks in C, OSS and CRE applications using memory functions malloc, calloc, free, etc.

Add User Exits to Nonstop Kernel System procedure invocations.

Set System procedure breakpoints(example Break #File_Open_, Writereadx, Readupdate, Process_Stop_, etc) or add your own User Exit code when System procedures are invoked.

Detect C / OSS Programming memory leaks.

Trace and analyze C / OSS dynamic memory management function calls (malloc, free, calloc, valloc, realloc).

OPTA-Trace Supports;

- > HP Nonstop environments – TNS, TNS/R and TNS/E.
- > Non-Native Programming languages - File code 100 (TAL, COBOL, SCOBOL, C, C++, etc).
- > Native Programming languages - File codes 700 & 800 (epTAL, eCOBOL, C, C++, Java, NMC, cCOMP, etc).
- > Guardian, OSS and Third-party applications and Tandem Utilities – TACL, FUP, etc.
- > Certified for HP Integrity Nonstop Servers.

TANDsoft

info@tandsoft.com

+ 1 (514) 695-2234

Distributors

Sionet B.V.(www.SIONET.com)

Legato (www.legato.com.sg)

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