



# OPTA

**Enhance NonStop Applications with Process Stack Monitor, Trace, Recycle Bin, Low Pin Optimizer, and EMS Alerts**

## Features

Available on all HP NonStop servers

No application modifications required

Supports major third-party apps

Process Stack Monitor alerts developers to the impending threat of a stack overflow

OPTA-Trace permits tracing/debugging of NSK system calls

Recycle Bin saves deleted files for later restoration

Low Pin Optimizer ensures efficient use of low-pin system resources

EMS Alerts provides additional application startup and termination processing

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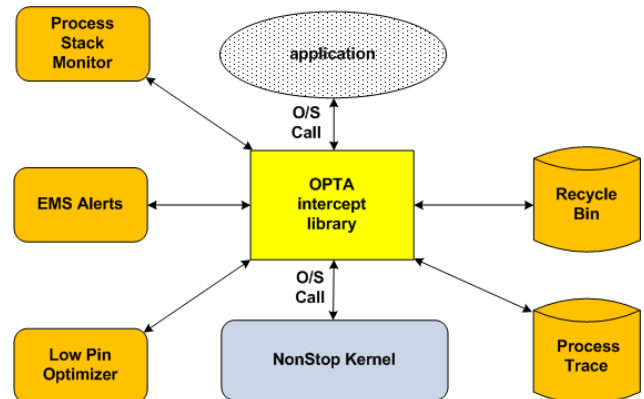
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## Overview

The OPTA online process tracer and analyzer highlights TANDsoft's expertise with interception technology. Our OPTA intercept engine includes an API that allows developers to write custom code to easily extend the capabilities of all HP Nonstop applications. The OPTA suite includes a variety of interception and trace utilities.

### Process Stack Monitor

Use this OPTA utility in development and testing environments to analyze an application's stack usage for memory shortages within the call stack. Programmers get a clear snapshot of all their programs on one screen and can evaluate trace files globally or one file at a time. With Process Stack Monitor, programs don't abend, unscheduled downtime is avoided, and users aren't inconvenienced.



### OPTA-Trace Online Process Tracer and Analyzer

OPTA-Trace seamlessly intercepts and traces procedure calls made to the NonStop Kernel operating system. Among other uses, it captures and records transaction flows and statistics, prevents deadlock situations, detects memory leaks, sets system procedure breakpoints, and adds user exits to procedure invocations.

### Recycle Bin

Add Recycle Bin to your system for fast retrieval of your files. Purged files are stored in Recycle Bin until you decide to restore them or to delete them permanently. When Recycle Bin fills up, it automatically cleans out enough space to accommodate the most recently deleted files. Files can be compressed, and different Recycle Bin sizes can be specified as a percentage of the disk capacity.

### Low Pin Optimizer

Managed ineffectively, NonStop Low-PIN (0 through 254) processes disrupt application environments and create operational bottlenecks. Low-PIN Optimizer automatically redirects and balances low-PIN process creation across a server's CPUs to ensure efficient allocation of system resources. It reduces low-PIN process creation failures by monitoring low-PIN processes in each CPU. When a CPU maximizes its low-PINs, process creations are redirected to a CPU with available low PINs.

### EMS Alerts Online Startup and Termination Capture Utility

EMS Alerts traces an application's startup and termination calls via EMS messages. When an application starts, EMS Alerts will display the Startup, Assign, and Param messages plus the process Defines used by the executing application. Prior to application termination, EMS Alerts will generate an EMS message as well as invoke a trigger for follow-on processing via a customer-provided user exit. Custom metadata can be added to application program object files.

Supports All HP NonStop Application Types and Platforms