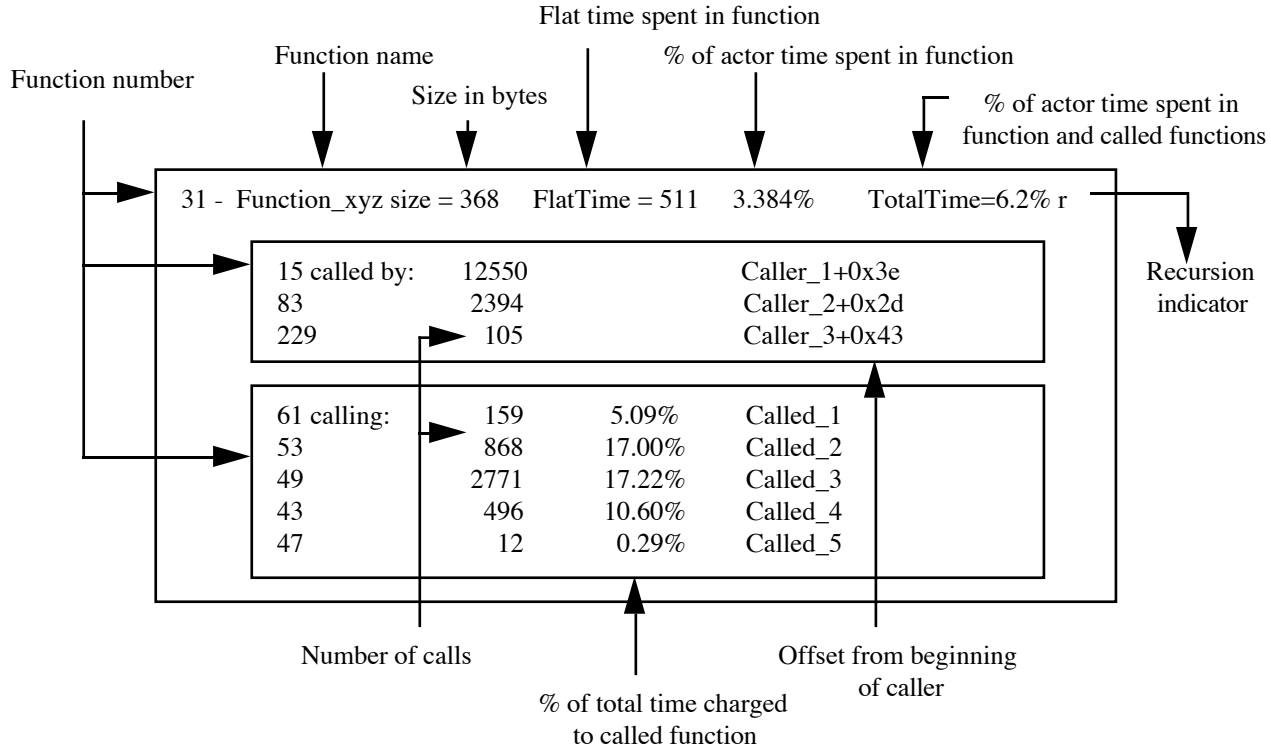
Product Datasheet: CHORUS® Profiler v3 r4

- ❖ **Tool for software optimization**
- ❖ **Provides complete, useful information on software run-time behavior**
- ❖ **Interactive tools applicable to a user-selected set of system processes (actors)**

The CHORUS Profiler allows users to obtain and display symbolic call-graph profile data for supervisor actors (similar to UNIX gprof(1)). Actors are compiled with the -p option. The Profiler consists of a supervisor/actor (PROF) plus 2 MiX utilities. Profiling can be enabled/disabled dynamically using the MiX utility profctl(1). Profctl(1) stores the raw profiling data in a UNIX file, which can be exploited by the report generator profrpg(1) in order to produce a human-readable report.

A typical report for one function is represented below:



Function_xyz is the name of the specific function profiled.

Caller_[1,2,3] is the list of functions which have called Function_xyz at run-time.

Called_[1,2,3,4,5] is the list of functions which Function_xyz called at run-time.

Key Benefits

- Profiles kernel and/or a set of supervisor actors
- Generates global report with distribution of cpu time
- Generates function-based report with distribution of cpu time inside the specific function
- Displays both "flat time" spent by the functions and "total time" spent by the functions and its called functions.

CHORUS Profiler Deliverables

CHORUS Profiler v3 r4 toolkit, including the following components:

- the profiling library
- the profiler server (supervisor actor)
- the profctl MiX utility
- the profrpg MiX utility

Documentation Deliverables

- System Profiling in CHORUS Kernel v3 r4
- Manual pages for MiX commands

For all other topics, the regular CHORUS Nucleus documentation applies.

Build Environment Deliverables

- Source files for the profiler and associated utilities are compiled in the Nucleus source file environment.

Prerequisites

- USL C compiler
- A machine capable of reading QIC streamer tapes
- MiX subsystem

Media

- 60 MB QIC streamer cartridge tape

Reference Machine

- COMPAQ 386/486

Additional Ports

- Motorola 680x0
- Sun SPARC

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