

cpuprocanalyzer

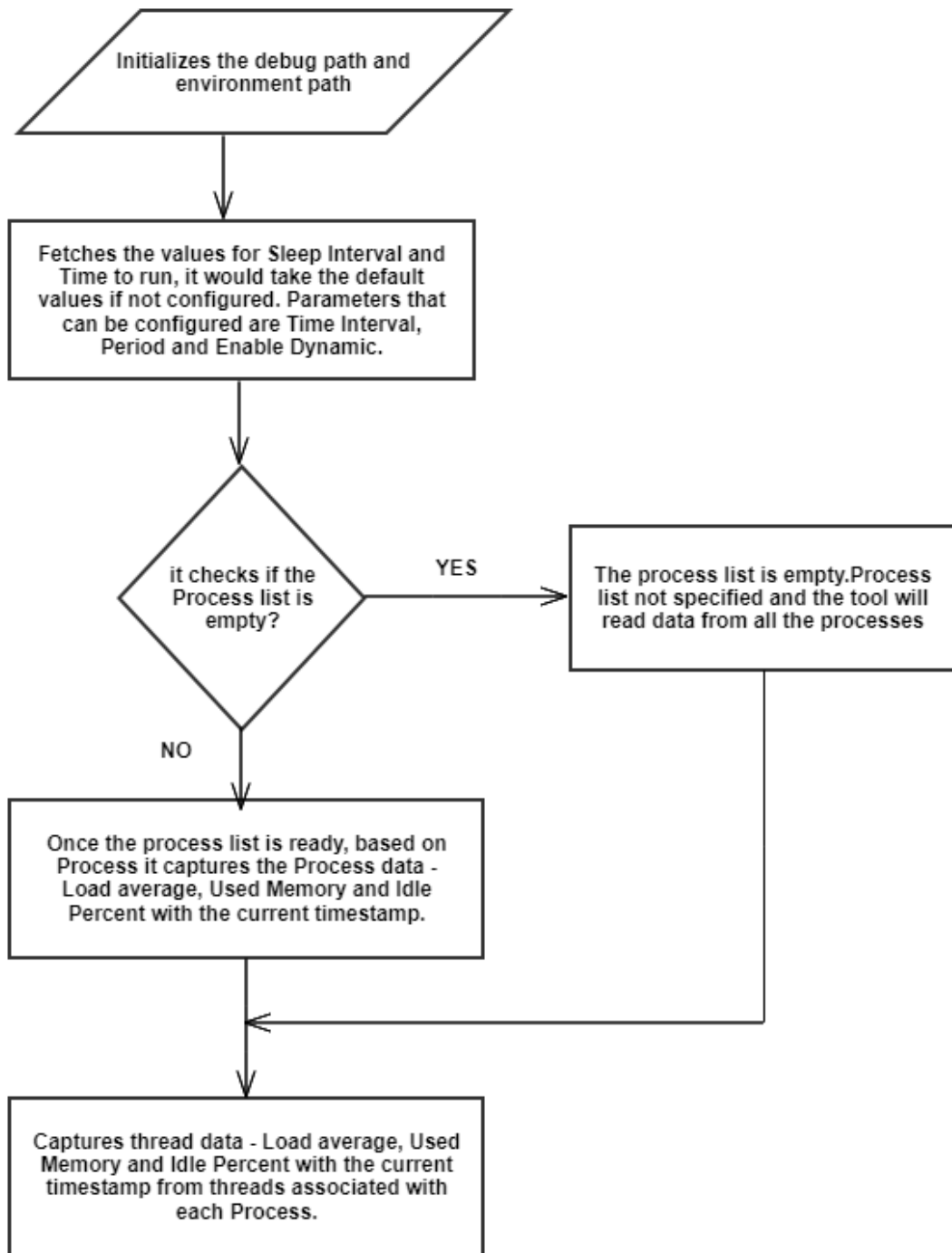
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Introduction

- RDK PROC ANALYZER is a tool that enables different teams like development, triage and testing to analyze the CPU and memory utilization of the processes that run on top of RDK framework.
- It helps us in detecting the memory leaks, cpu and memory performance regressions.
- This tool is implemented as a service.
- Highly configurable (Parameters like period , time interval and processes to be monitored can be configured).

Code Flow

- The main code flow of CPU Procanalyzer -



- To get the Load Average information-

/proc/loadavg
to get the Load Averages over
the past 1, 5 and 15 minutes.

- To get the Memory information-

/proc/meminfo
to get the Memory information :
Total Memory and Free Memory



Used Memory =
Total Memory - Free Memory.

- To get the Idle Percent Information-

/proc/stat
to get the Idle Percent
information.

How to Launch

This tool runs as a service.

If the file /tmp/PROC_ANALYZER_ENABLE is touched the tool starts running and it logs the details.

How to Configure:

1 Open 'opt/rmfconfig.ini' file on the device.

Parameters that can be configured:

(a)Time Interval

(b)Period

(c)Enable Dynamic

(a) Time Interval : It is the amount of time the tool runs.

(b) Period : It is the interval of time for which the tool records the information.

(c)Enable Dynamic : This is a flag to disable and enable the capturing of dynamic processes
(Enable Dynamic = 1 means enable and Enable Dynamic =0 means disable).

It would take the default values if not configured (sleepsecs:60, Time to run:0, Dynamic:1)

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EX: FEATURE.CPUPROCANALYZER. SLEEP.SECONDS=60
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FEATURE.CPUPROCANALYZER.TIMETORUN.SECONDS = 0 (which means tool runs until it is killed manually)
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```
FEATURE.CPUPROCANALYZER.DYNAMIC = 1
```

2. Open '/opt/processes.list' file on the device.

File to configure process names to be monitored