



PerfDat – an Overview

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Agenda

- Design, Architecture, Features of PerfDat
- Types of systems, Installation, configuration options
- Usage
 - start/stop PerfDat, autostart options
 - define & work with collections
- Demo: Working with the PerfDatGUI
 - connect to VMS node, create simple graphs
 - modes of operation, reporting options
 - Configure and perform online analysis
 - Stored procedure engine
 - Alerting subsystem

Design, Structure, Features

What is PerfDat?

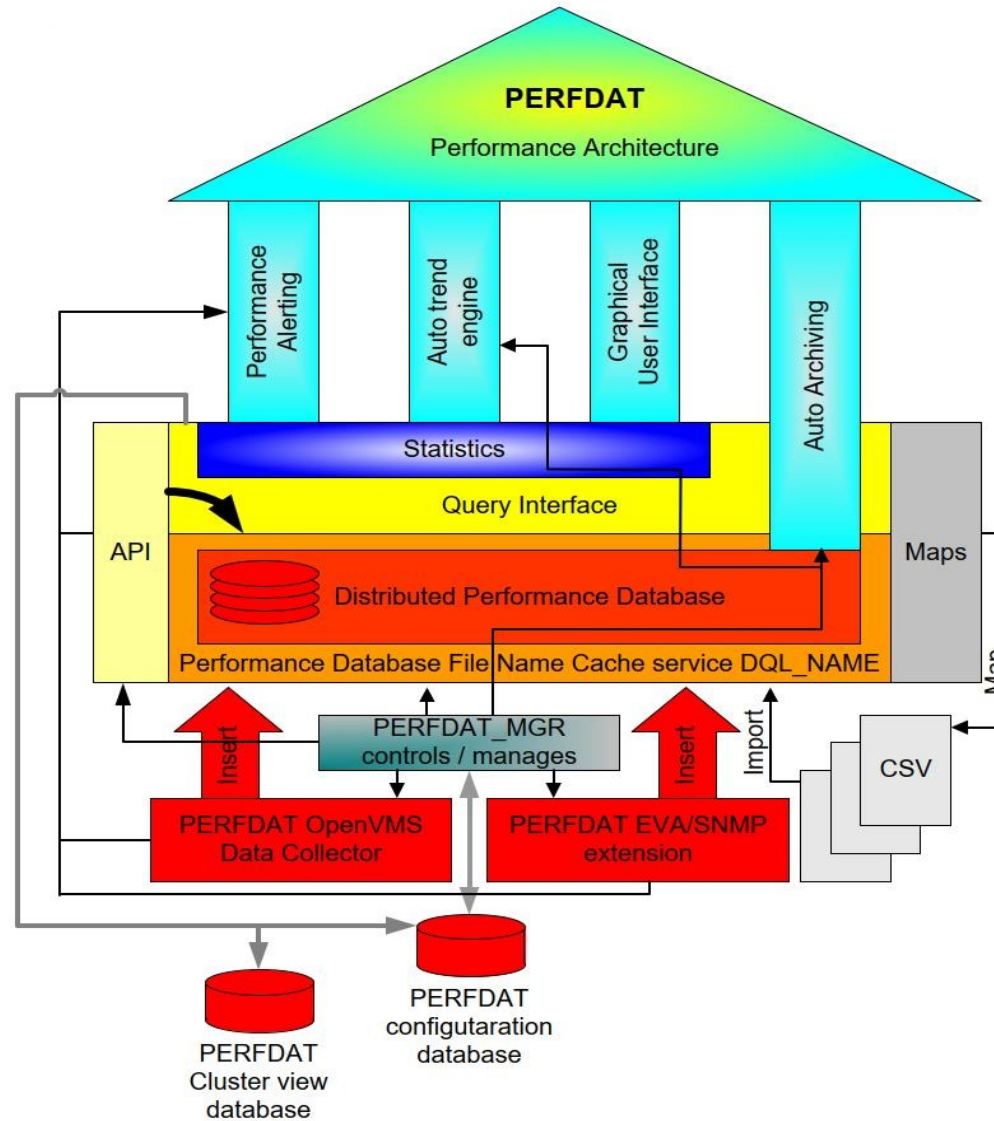
“PerfDat is a performance and capacity planning solution that is capable of supporting all performance and capacity planning related activities during the lifetime of a system.”

- Automatic data mgmt, archiving, housekeeping, Report creation
- Online Monitoring, Tuning, Troubleshooting
- Benchmarking, Stress testing, System sizing
- System characterization, Trend and Capacity Analysis
- Validate performance impact of new software/software versions/OpenVMS releases
- Fine-grained alerting subsystem
- GUI

Components of PerfDat

- OpenVMS Data Collector
- PerfDat SNMP extension
- PerfDat EVA extension
- Distributed performance database
- PerfDat configuration database
- Performance database file name cache service DQL_NAME
- Management Interface (PERFDAT_MGR)
- Data Query Interface (DQL\$)
- Application Programming Interface
- Online performance alerting
- Statistics package
- Auto trend engine
- Auto Archiving and housekeeping
- Graphical User Interface
- Tools (RDB performance data import utility, SNMP testing, CSV imports)

Architecture of PerfDat



PerfDat Environment

Within PerfDat, a node can be one or more of the following:

- OpenVMS collector system
- Archive system
- Access server
- EVA agent system
- SNMP agent system
- SNMP server system

PerfDat Concepts

- **Profile**
Defines sample interval, metrics etc.
- **Collection**
Profile-controlled process that collects performance data
- **Report**
Automatic way of preparing raw data for advanced analysis
- **Performance database**
Sum of all data files within a monitored environment
- **Metrics / Elements**
The performance classes & items to be worked on
- **Community**
Logical partition of whole environment, defines data visibility

PerfDat installation

```
$ @SYS$UPDATE:VMSINSTAL PERFDAT048disk:[directory]
```

```
INSTALL HP PERFDAT V4.8 on the entire cluster [Yes]:
```

```
* Enter the cluster members to be processed as a comma separated list [THISND]:
```

```
* ...purge files... run IVP...
```

```
* Enter device to install common resources (images, CFG files, archive files ...):
```

```
* Enter data collector working device:
```

```
* Do you want to use an archive node for archiving performance data [No]:
```

```
[* Enter the node name of the archive node:]
```

```
* Host trend data files created by the auto-trend engine on the archive node [Yes]:
```

```
* Enter UIC for DQL$SRV account (Format [g,m]) [[520,1]]:
```

```
* Enter nodes that belong to the 'community of interest' [THISND]:
```

```
* Do you want to apply an Authorization key [Y]:
```

```
* Do you want to auto-configure HP PERFDAT [YES]:
```

```
* Do you want to enable default alerting [No]:
```


PerfDat startup

This PERFDAT_MGR cmd...

...will execute this DCL proc.

LAUNCH ALL

SYS\$STARTUP:PERFDAT\$STARTUP.COM

SYS\$STARTUP:PERFDAT_SNMP\$STARTUP.COM

SYS\$STARTUP:PERFDAT_EVA\$STARTUP.COM

LAUNCH PERFDAT

SYS\$STARTUP:PERFDAT\$STARTUP.COM

LAUNCH PERFDAT_SNMP

SYS\$STARTUP:PERFDAT_SNMP\$STARTUP.COM

LAUNCH PERFDAT_EVA

SYS\$STARTUP:PERFDAT_EVA\$STARTUP.COM

LAUNCH DQL\$SRV

SYS\$STARTUP:DQL\$STARTUP.COM

LAUNCH PDBC\$SRV

SYS\$STARTUP:PDBC\$STARTUP.COM

LAUNCH NAME_SERVER

SYS\$STARTUP:DQL_NAME\$STARTUP.COM

START ARCHIVE

SYS\$STARTUP:PERFDAT_ARCHIVE\$STARTUP.COM

PerfDat Demo

fasten seat belts ...

Thank You

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