HP PERFDAT Readme

Welcome to the HP PERFDAT Download Area (http://www.perfdat.com)

Here you will find the most recent versions of "HP PERFDAT for OpenVMS" and the "HP PERFDAT Windows GUI" component and of course all the related documentation you need.

The HP PERFDAT performance solution for OpenVMS is distributed as a service that includes:

- Software usage
- Software maintenance service
- Software upgrade service (Right to use new versions)
- Installation support and initial configuration service

If you have any questions about HP PERFDAT or problems installing and/or running it, please contact the following HP PERFDAT Support link:

perfdat@perfdat.com

You can test-drive HP PERFDAT free of charge for one month after installing the OpenVMS Kit.

The download area is organized into three major directories:



HP PerfDat - for people whose time is precious !

_	Name	<u>Size</u>	Description	
	DOCUMENTATION/	175	Documentation Directory	
	GUI/	-	GUI Kit Directory	
	OPENVMS/	141	VMS Kit Directory	
	PERFDAT Readme.pdf	2.3M	HP PerfDat Readme - Introduction	
Con	n <u>tact PerfDat:</u> © 2013 Comp Follow @perfdat	inia GmbH	[& C₀ KG	

The DOCUMENTATION directory contains at the top level all the relevant technical presentations and articles related to HP PERFDAT that have been published over the years.

Index of /DOCUMENTATION

	Name	Size	Description
2	Parent Directory	-	
	PerfDat Bootcamp 2007.pdf	454K	Bootcamp Presentation - 'A new performance solution for OpenVMS'
	PerfDat Bootcamp 2008.pdf	1.4M	Bootcamp Presentation - 'HP PerfDat - New Features'
	PerfDat Bootcamp 2010.pdf	1.8M	Bootcamp Presentation - 'HP PerfDat - An Enterprise Performance Solution'
	PerfDat DECUS 2004.pdf	1.5M	DECUS Presentation - 'A new performance solution for OpenVMS'
	PerfDat DECUS 2005.pdf	574K	DECUS Presentation - 'V2.3 New Features and Options'
	Perfdat std.pdf	31K	HP PerfDat Service Tool Description
	Technical Journal Perfdat.pdf	753K	HP OpenVMS Techical Journal V8 (2006)
	V4.5/		HP PerfDat V4.5
	V4.6/	-	HP PerfDat V4.6

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In addition, the DOCUMENTATION directory has version specific subdirectories that contain the OpenVMS HP PERFDAT related documentation. Please note as of HP PERFDAT V4.5 all the product documentation include PDF bookmarks for user-friendly document navigation.

Index of /DOCUMENTATION/V4.6

	Name	<u>Size</u>	Description
2	Parent Directory	-	
	DQL Reference v46.pdf	1.2M	OpenVMS HP PerfDat DQL Reference Manual V4.6
	PERFDAT MGR Reference v46.pdf	1.2M	OpenVMS HP PerfDat PERFDAT_MGR Reference Manual V4.6
	PerfDat API Users Guide v46.pdf	646K	OpenVMS HP PerfDat API Users Guide V4.6
	PerfDat Arch Tech v46.pdf	2.1M	HP PerfDat Architecture + Technical Description V4.6
	PerfDat Instal v46.pdf	750K	OpenVMS HP PerfDat Installation Guide V4.6
E	PerfDat Release Notes v46.pdf	447K	OpenVMS HP PerfDat Release Notes V4.6

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- DQL Reference Manual
- PERFDAT_MGR Reference Manual
- Installation Guide
- Release Notes
- PERFDAT API Users Guide

(for advanced HP PERFDAT Users) Description of the Management Utility

HP PERFDAT OpenVMS Update and Installation manual Release Notes that contain information regarding new functionality and bug fixes API User's Guide for applications that want to use HP PERFDAT as a performance database • Architecture and Technical Description

Comprehensive overview of the Architecture and the technical implementation of HP PERFDAT

The GUI directory contains the GUI (Graphical User Interface) kit, which you can download onto your Microsoft Windows system. The GUI kit does NOT require a license to run.



HP PerfDat GUI - for people who like to get the complete picture !

8	Name	Size	Description
2	Parent Directory	-	
1	PerfDatGui422 Setup.zip	6.4M	HP PerfDat GUI Kit V4.2-2 (06-MAR-2009)
	PerfDatGui430 Setup.zip	5.4M	HP PerfDat GUI Kit V4.3-0 (07-SEP-2011)
	PerfDatGui Release Notes v422.pdf	681K	HP PerfDat GUI Kit V4.2-2 Release Notes
	PerfDatGui Release Notes v430.pdf	96K	HP PerfDat GUI Kit V4.3-0 Release Notes

<u>Contact PertDat:</u> © 2013 Compinia GmbH & Co KG Follow @perfdat The OpenVMS directory contains the OpenVMS HP PERFDAT kit in the form of an OpenVMS Zip Archive file (for a copy of zip/unzip for OpenVMS please see the following Web site: <u>http://h71000.www7.hp.com/openvms/freeware/freeware.html</u>).

Download and copy the HP PERFDAT archive zip file onto your OpenVMS system. Unzip this file to get the OpenVMS Installable Backup Save Set. Use VMSINSTAL to install the kit.

HP PerfDat OpenVMS - for people who need reliable performance data !

	Name	Size	Description
۵	Parent Directory	-	
	NET-SNMP/	(<u>1</u> 1)	NET-SNMP (for Sun Solaris) Directory
	PerfDat Release Notes v45.pdf	108K	OpenVMS HP PerfDat Release Notes V4.5
	PerfDat Release Notes v46.pdf	447K	OpenVMS HP PerfDat Release Notes V4.6
N.	perfdat045.zip	165M	OpenVMS HP PerfDat Kit V4.5 (12-SEP-2011)
	perfdat046.zip	165M	OpenVMS HP PerfDat Kit V4.6 (02-NOV-2013)

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The OpenVMS directory includes a NET-SNMP directory that includes a NET-SNMP kit for Solaris. This kit is useful for people who want to use the HP PERFDAT SNMP collector in combination with Sun Solaris. For more information please refer to the HP PERFDAT Manuals and Release Notes.

License

When installing HP PERFDAT the first time, a 30 day HP PERFDAT test license is automatically applied to your OpenVMS system.

Please be aware that if you de-install and reinstall HP PERFDAT on a node containing this temporary license, this license key will be invalidated immediately. In order to continue using the HP PERFDAT collector you now have to apply a valid license. If you have any problems regarding licensing please contact: <u>perfdat@perfdat.com</u>.

Please Note:

- You do NOT require an HP PERFDAT license to access and analyze data that has already been collected on your or any other HP PERFDAT system.
- You do NOT require an HP PERFDAT license to use the HP PERFDAT GUI component.
- You do NOT require an HP PERFDAT license to operate an HP PERFAT Archive system.
- Only systems running any type of HP PERFDAT collector (OpenVMS, EVA, SNMP) require an HP PERFDAT license to operate.

Is this the right product for you ?

May we suggest that you first peruse one of the many presentations or technical articles in the documentation directory: http://www.perfdat.com/DOCUMENTATION/

Quick Tips for the first time user:

- 1. Download and install the OpenVMS HP PERFDAT Data collector(VMSINSTAL).
- 2. Start a collection using the default profile (if not already started).

```
$ mc perfdat_mgr start collection default
PERFDAT_MGR-I-COLSUC, collection started successfull
PERFDAT_MGR-I-COLSTART, collection profile DEFAULT scheduled for
start at 7-SEP-2011 11:55:00.00
```

3. Check that your collection has started

\$ mc perfdat_mgr show collection/brief

Active CollectionsTypeNodeDEFAULTOPENVMSMHS1PERFDAT_MGR-E-NOTRUN, EVA master process not runningPERFDAT_MGR-E-NOTRUN, SNMP master process not runningPERFDAT_MGR-I-NOSUCHCOLL, no such application collection /*/ active

Please remember in order to view the data 'online' the collection has to be started with the /SHARE qualifier, otherwise you will have to stop the collection before being able to access the performance data with the GUI.

- 4. Download and install the Windows GUI
- 5. Launch your PerfdatGui
- 6. Define an 'Access Server' in your HP PERFDAT GUI configuration An 'Access Server' is the system over which the HP PERFDAT GUI can access the performance data over a network connection. Typically in a test installation an 'Access Server' will be the same system as the system where you have started a performance collection. In a production environment it is more usual to offload the performance data from various OpenVMS HP PERFDAT collections on a regular basis on to a HP PERFDAT Archive System. This system then can also act as the 'Access Server' for all the HP PERFDAT GUI(s) in your environment.

Title Bar=>Configuration=>Communities + Name •

- + IP Address or Name (assuming DNS is working)



- 7. Using you PerfdatGui connect to the HP PERFDAT Access Server that you have configured.
 - HP PERFDAT GUI Top LH Pane (Communication View)
 - Access Information requested :
 - + OpenVMS User Name
 - + OpenVMS password

Please Note : The OpenVMS User has to have the required priviliges to access the collection data. Please refer to your HP PERFDAT Documentation for more information. In most cases accessing the data with the SYSTEM account, will be successful.

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🗗 PerfDatGui - Short Te	rm Analysis Mod	e					
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Communication View	Coi	llection Working	Set / Statisti	cs Selection			
Available Communities						-	Stat
Access Server Login		1					
Username: system							
Password *******	***						
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Cancel	ок						
Collection View							
Accessible Collections							

8. Once successfully connected, an icon illustrating the type of Collector will be displayed in the '*Collection View*' upper pane. In the case of an OpenVMS collector an icon named OPENVMS should appear. Click on this icon and a one or more icons representing the systems (Node names) where collections have been started should appear.

Clicking on the Node name icon should reveal the name of the profile(s) used in the collection(s) (typically DEFAULT). When selecting this profile, one or more collections dates should appear in the *'Collection View'* lower pane.



9. Click the date icon representing one of the collections. This should result in a list of metrices that have been collected being displayed in the *'Collection Working Set'* pane.



10. Click on one of the metrix groups to reveal the individal metrices in the *'Statistic/Description/Unit'* pane.

est communities	Cp or TIPMS_DEFAULT_21_3M+2009 	Statistics Statistics Statistics Statistics Statistics	Description CPU Load total CPU Work load (= ICpuload - MpSync)	[%]
		rCpuLoad	CPU Load total CPU Work load (= iCpuload - MpSymc)	[%]
S2		iCpuWrkLoad	CPU Work load (= Kpuload - MpSync)	[96.]
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	+ Metrix: LANADAPTER DEVICE (43)	MiCpuCnt .	CPU Number of active CPU's	[#]
View	+ ET Metrix: LANPROTOCOL (10)	MemUseRate	MEM Percentage of memory used	[%]
e Collections	(E) Metrix: PROCESS (575)	MemUsed	MEM In use	[948]
MH52	+ I Metric: SCSPORT (3)	MemFree	MEM Free	[881]
COPENVINS	metric: SCSPORT.VC (4)	Men Mod	NEM Modified	[948]
E B DTIPM3	Mebrix: SCSPORT.VC.CHANNEL (13)	MemPhy	MEM Physical memory total	[MB]
DEFAULT	- III Mebra: SYSTEM (1)	MemVmsAlloc	MEM Permanently allocated to OpenVMS	[MB]
- B DIPM	OPENWMS	MemReserved	MEM Reserved memory	[MB]
DEFAULT	Metrix: USER (22)	MPagCurr	NPAG Current size	[MB]
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		25 MP agfree	NPAG Free space	[148]
		NPagUsed	NPAG Used space	[M8]
		Page NPage VarBik	NPAG Largest Var Block	[88]
		25 MPagSVar8k	NPAG Smallest Var Block	[Bytes]
		25 NPagPreeBks	NPAG Number of free blocks (lookaside & variable list)	[#]
		PS://PagVar8ks	NPAG Number of free Blocks (Fragments) in Variable List	[#]
		PS NP agLockBiks	NPAG Number of free Blocks on Lookasides	[#]
		PS MPagLookSize	NPAG Lookaside Space	[M8]
		MPagExpSuc	NPAG Successful Expansions	[#]
		25 MPagExpFall	NPAG Failed Expansions	[#]
		inPagAloc	NPAG Total Alloc Requests Rate	[1/s]
		25 MPagAlocFal	NPAG Failed Alloc Requests Rate	[1/s]
4N-2009		CacheInUse	XFC Mem in use	(MB)
		C5 CacheFree	XFC Mem free	[MB]
		25 (CacheAlloc	XFC Mem alloc	(MB)
		CacheHts	XFC Cache Hits	[%]
		2% CacheRdHks	XFC Cache Read Hits	[%]
		25 CacheRd	XFC Cache Reads	[10/s]
		PS CacheWr	XFC Cache Writes	[10/s]
		25 CacheRdRatio	XFC Cache Read Ratio	[%]
		PSiCacheRdByp	XFC Reads Bypassed	[10/s]
		25 CacheWr8yp	XFC Writes Bypassed	[10/s]

11. Select one of the statistics either by clicking on the icon or using the right mouse button to retrieve the data collected and initate the display of the values.



12. Switch to the Graphics tab and study what you have selected.



13. You can now switch back to to the *'Data Explorer'* and select other statistics either to add to the same graph or another graph.

Transaction Log
SHOW ELEMENTS * FROM SCSPORT.VC ALIAS DTIPM3_DEFAULT DATE 21-JAN-2009; SHOW ELEMENTS * FROM SCSPORT.VC.CHANNEL ALIAS DTIPM3_DEFAULT DATE 21-JAN-2009; SHOW ELEMENTS * FROM SYSTEM ALIAS DTIPM3_DEFAULT DATE 21-JAN-2009; SHOW ELEMENTS * FROM USER ALIAS DTIPM3_DEFAULT DATE 21-JAN-2009; SHOW ELEMENTS * FROM VSEV ALIAS DTIPM3_DEFAULT DATE 21-JAN-2009; SHOW LOGICAL STORAGE AREA ALIAS DTIPM3_DEFAULT DATE 21-JAN-2009; SHOW LOGICAL STORAGE AREA ALIAS DTIPM3_DEFAULT DATE 21-JAN-2009; SHOW STATISTICS FROM CPU ALIAS DTIPM3_DEFAULT DATE 21-JAN-2009;

Please note the output in the 'Transaction Log' pane.

This illustrates how you are using the GUI to prepare and excute a DQL query via the 'Access Server'. The GUI is not a pre-requisite to produce graphs of your performance data. Many users of HP PERFDAT do this in an automated fashion and make this data available via a WebServer. For more information please consult the HP PERFDAT documentation.

There are a multitude of functions to discover -just try and see and get a feel for the GUI.