ProLiant Essentials
Performance
Management Pack:
Resolving ProLiant server
performance issues

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# HP WORLD 2003 Solutions and Technology Conference & Expo

#### **PMP** overview

A performance management solution, part of the ProLiant Essentials family, seamlessly integrated with Insight Manager 7 and Insight Management Agents

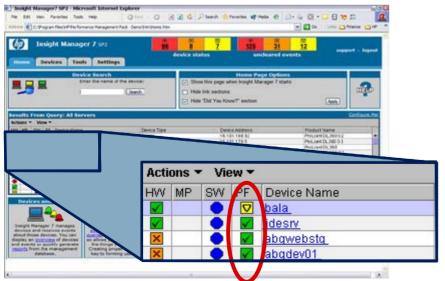
- All salient performance parameters predetermined
- Explanation of the values supplied
- Uses Insight Management Agents to collect data
- User interface is browser-based
- Performance data can be logged for later playback, summary reporting and data extraction
- Monitors ProLiant servers running Microsoft Windows server operating systems



### **Insight Manager integration**

#### Shipped in the Foundation Pack with IM7

- Automatic silent install & common database with IM7
- Server performance status on IM7 home page
- Send performance events to IM7 for notification
- Launch PMP in context of managed device







### PMP product architecture



#### Front-end:

 Workstation with Microsoft Internet Explorer

#### Middle-tier:

- Server or workstation running
   IM7 and PMP
- Microsoft Windows NT, 2000, & Server 2003

#### Monitored servers:

 ProLiant servers with Microsoft Windows NT, 2000, or Server 2003 & management agents

11/19/2003



### PMP usage scenarios



## Preventing performance issues

☑ pro-active notification

☑ interactive analysis





#### Solving afterhours performance problems

data logging

☑ offline analysis





## **Extending**useful life of server

pinpoint component causing performance issues

☑ explanation of issue





## Justifying server replacement

☑ inventory

☑ data logging

☑ summary reporting





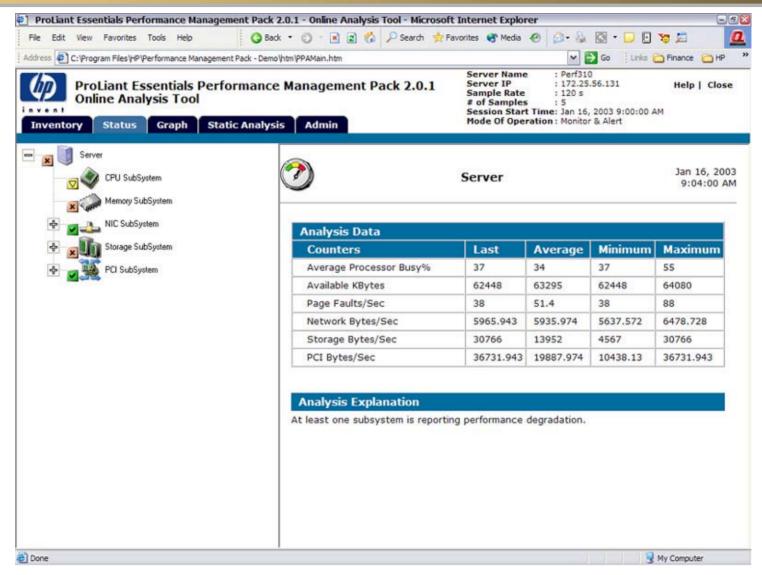
### Consolidating Servers

monitoring and logging for detailed analyses of candidate systems

☑ monitoring after the fact to guard against incompatible workloads



#### PMP demo





### **PMP cost & licensing**

## Priced & licensed to make purchasing PMP as easy & simple as possible

- Internet list price: \$99 per monitored server
- Licenses "lock" to a server serial number not floating or transferable. Exceptions:
  - Replacement of system board without serial number reassignment
  - Purchase of PMP for replacement or consolidation onto new servers
- Three product license kits (part numbers) for convenience:
  - Single server license (306696-B21): 1 key = 1 server licensed
  - Flexible license (306697-B21): 1 key = n servers licensed
  - Tracking license (306698-B21): used with Master License Agreement
- 1 free license built into each PMP middle-tier installation more licenses for evaluation available through HP field offices

## PMP server configuration examples



#### 20 monitored servers

- ProLiant DL320 G2
- 256MB memory
- 40GB ATA drive

#### 200 monitored servers

- ProLiant DL360 G2 (1P)
- 1GB memory
- two 36GB SCSI drives

The examples given are configured to allow for high frequency polling, alerting, and data logging with room for growth and performance spikes

#### 2000 monitored servers

- console server
  - ProLiant DL360 G3 (2P 2.8GHz)
  - 2GB memory
  - two 18GB SCSI drives
- database server
  - ProLiant DL380 G3 (2P 2.8GHz)
  - 2GB memory
  - two 18GB SCSI drives
  - four 36GB SCSI drives



#### **PMP Return on Investment**

#### PMP ROI Calculator Demo

performance resolution costs without PMP				
number of servers to analyze	25	totals/yr		
average number of performance issues	1/4			
experienced per month per server	1/4	75		
average hours spent analyzing each				
performance issue	3	225		
average hourly rates (loaded costs):				
irtemal personnel	\$85			
outside consultants	\$180			
% age of hours by outside consultants	0 %	\$19,125		

performance resolution costs with PMP			
number of servers to analyze	25	totals/yr	
average number of performance issues experienced per month per server	1/4	75	
average hours spent analyzing each performance issue	1/2	37.5	
average hourly rates (loaded costs):			
irternal personnel	\$85		
outside consultants	\$180		
% age of hours by outside consultants	0 %	\$3,188	

acquisition and deployment costs of PMP				
net cost per PMP license	\$99	\$2,475		
Is Insight Manager already installed?	No			
deployment time for IM7 console (hours)	2	\$170		
console server hardware	\$1,375	\$1,375		
management agent installation/upgrade time per server (hours)	1/2	\$1,063		
total acquisition & deployment costs		\$5,083		

total savings with PMP			
performance resolution cost without PMP		\$19,125	
with PMP		\$3,188 -/-	
cost of deployment of PMP		\$5,083 -/-	
	total first-year ne	t savings	\$10,855
net first-year savings per server		\$434	
time to ROI (months)		3.8	

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#### **PMP** information sources

- www.hp.com/products/pmp
  - External product page
  - Links to ROI calculator, downloads, documentation
- http://issg.inet.cpqcorp.net/iss/workgroup/software/pack s/pmp.asp
  - Internal product page
  - Similar links to product page plus internal product information

#### ISS PIT

- Internal site
- Demo versions
- Product presentations



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