Hewlett Packard Enterprise

Modern Operation & Performance Management

2016

Operation / Performance

New Web ViewPoint

Hewlett Packard
Enterprise

NS Live

10.26.98.21/dnslive30/#/index

Jira 1D QB MD GD AWS HP S. EV Lucid FutexLive Virtu General NSLive NS Live Other bookmarks

idev.khody

NonStop

NSCLOUD

\NSCLOUD 16:52:05

CPU S

Process

Disk

TMF

23801_Stuart_Ranch_...p...

Show all downloads...

Operation Solutions

Solution	X86	Blade	Itanium
Web ViewPoint Plus	BE299AC	QSJ75V1	HSJ75V1
Web ViewPoint	BE295AC	QSJ70V5	HSJ70V5

Hewlett Packard Enterprise

Remote Analyst

2016


2+ listall cpu 1
Cpu 1 NSE-Q Init Lock Pgs 19 Mem Pages 524288
Memory MB 8192 PCBs 12100 Pg Size 16384 Bytes
Format Version: H07 Data Version: H07 Subsystem Version: 3
Local System \NSDEMO From 7 Jul 2015, 14:25:00 For 60 Seconds
Processor
Cpu-Busy-Time 8.47 % Dispatches 182.55 /s
Cpu-Qtime 0.01 AQL Intr-Busy-Time 0.05 %
Comp-Traps 79.21 /s Process-Ovhd
Memory
Starting-Free-Mem 440,893 # Ending-Free-Mem 440,898 #
Swaps Page-Requests 0.05 /s
MM-Page-Scans 6.07 /s Page-Scans 6.07 /s
Unsp-Pages-Qtime Ending-UCME
Unsp-Pages-Start Unsp-Pages-End
Starting-SCL 42,420 # Ending-SCL 42,420 #
Starting-UCL 331,611 # Ending-UCL 331,614 #
Starting-Free-CIDs 62,988 # Ending-Free-CIDs 62,988 #
Starting-Timer-Cells 1,137 # Ending-Timer-Cells 1,137 #
Locked-Pages-Start 55,971 # Locked-Pages-End 55,974 #
Device I/O
Disc-IOs 6.00 /s Cache-Hits 0.98 /s
Transactions Response-Time
Messaging
Link-Prepush-Msgs 2.35 /s Readlinkcache-All 10.16 /s
Link-Readlink-Msgs Readlinkcache-Ctrl 0.72 /s
Link-Large-Msgs 0.02 /s Readlinkcache-None
Replyctrlcache-Msgs 10.46 /s
++
Device I/O
Disc-IOs 6.15 /s Cache-Hits 8.07 /s
Transactions Response-Time
Messaging
Link-Prepush-Msgs 11.22 /s Readlinkcache-All 17.47 /s
Link-Readlink-Msgs Readlinkcache-Ctrl 2.19 /s
Link-Large-Msgs 0.18 /s Readlinkcache-None
Replyctrlcache-Msgs 19.10 /s
++
Endpoint Transfers Initiated by this Local Processor
to/fm READS INTO CPU READ BYTES WRITES FROM CPU WRITE BYTES
CPU-0
CPU-1
CPU-2 31.37 /s 59,603 /s 37.26 /s 48,593 /s
CPU-3
CPU-4
CPU-5
CPU-6
CPU-7
CPU-8
CPU-9
CPU-10
CPU-11
CPU-12
CPU-13
CPU-14
CPU-15
See TOTAL for sum over all initiating CPUs: total data into & from each CPU.
++

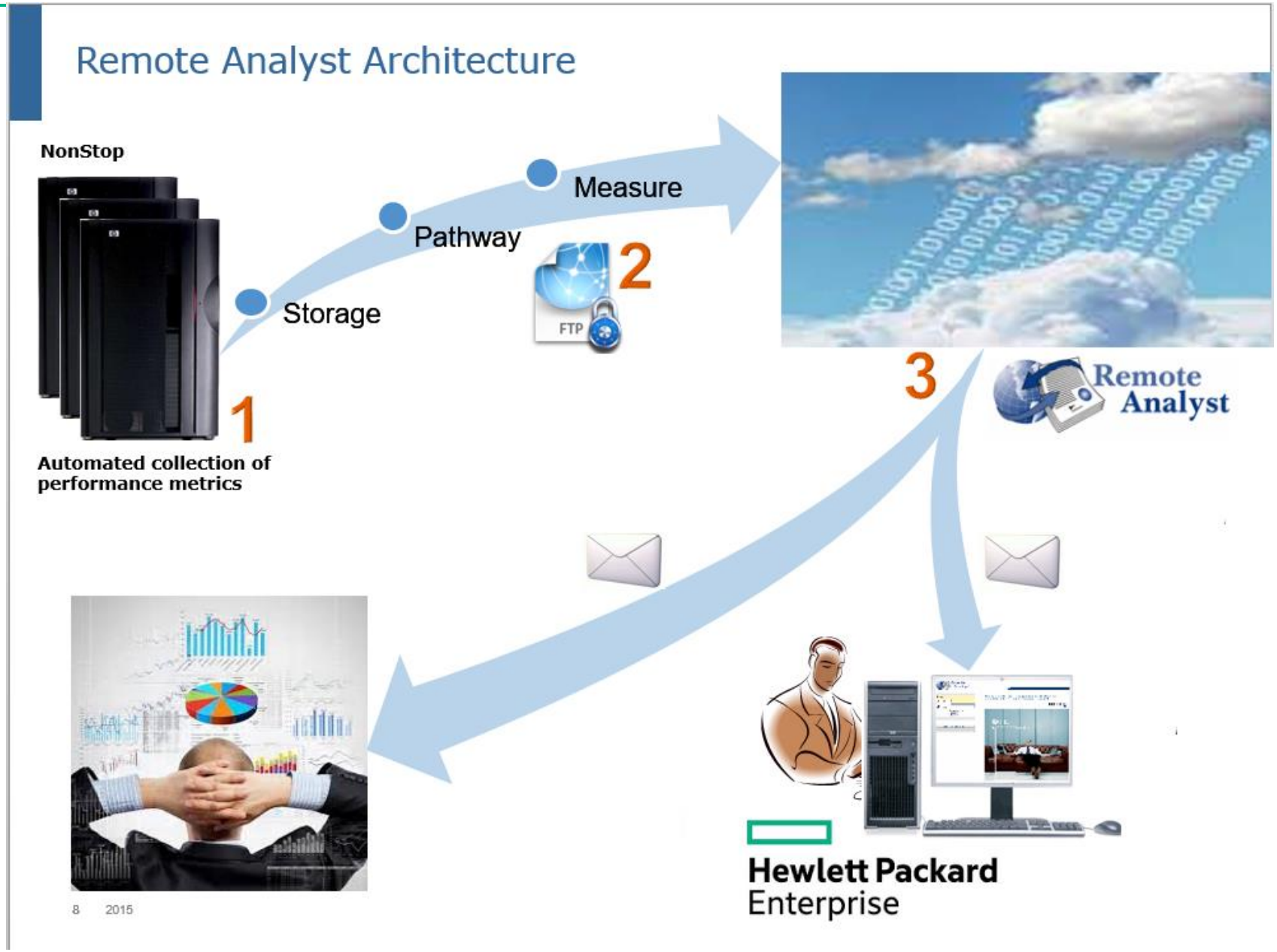
Cloud Analytics
Remote Analyst

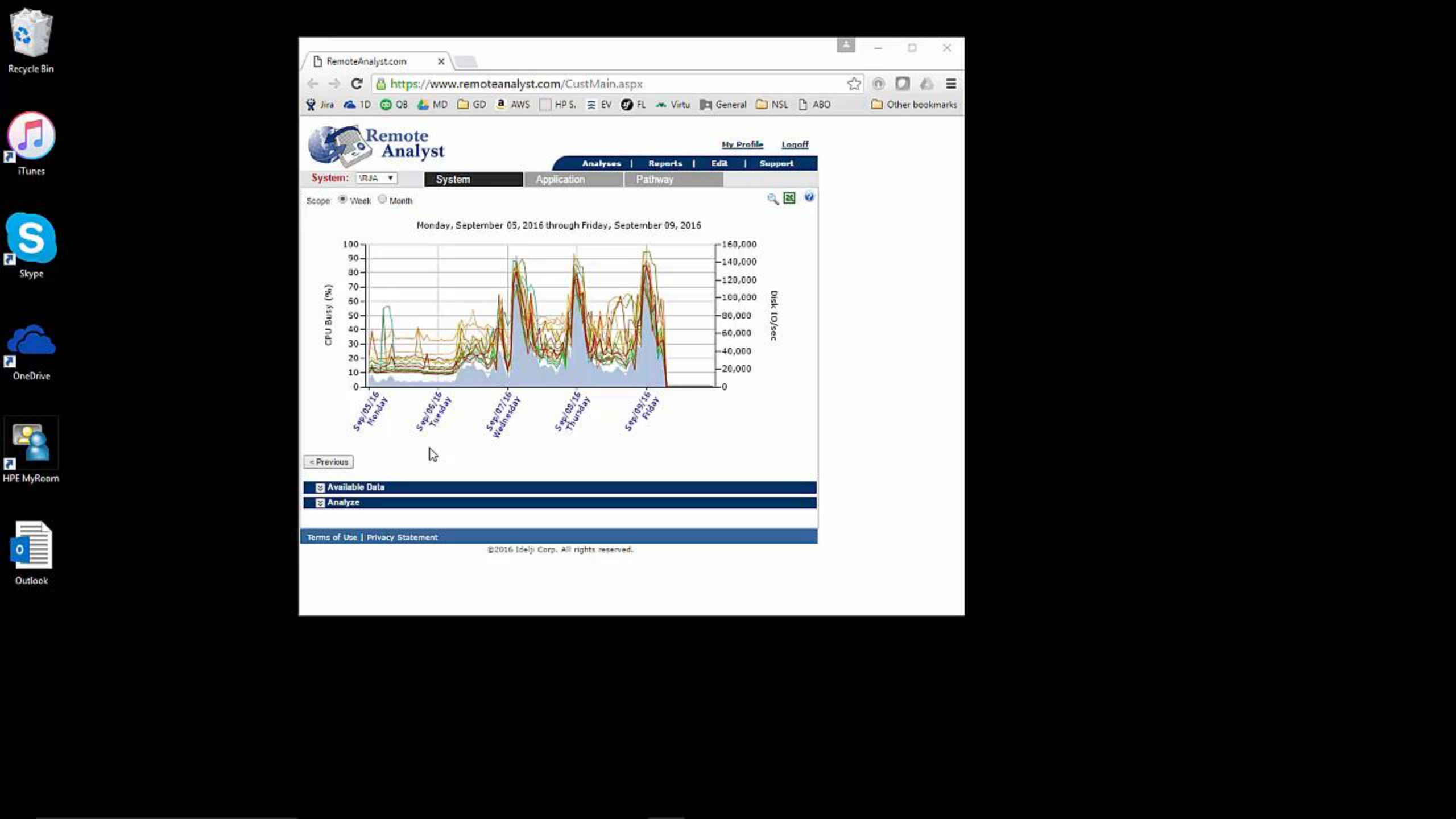
AWS

or

Your Private Cloud

“Local Analyst”




Recycle Bin
iTunes
Skype
OneDrive
HPE MyRoom
Outlook
RemoteAnalyst.com
https://www.remoteanalyst.com/CustMain.aspx
Remote Analyst
My Profile
Logoff
Analyses | Reports | Edit | Support
System: \RJA
System
Application
Pathway
Scope: Week Month
Monday, September 05, 2016 through Friday, September 09, 2016
CPU Busy (%)
Disk IO/sec
Sep/05/16 Monday
Sep/06/16 Tuesday
Sep/07/16 Wednesday
Sep/08/16 Thursday
Sep/09/16 Friday
< Previous
Available Data
Analyze
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Quick Tuner

Know your NonStop

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Table of Contents / About

Processor Overview

Processor	00		01		02		03		04		05		06		07		08		09		10		11	
CPU Type	NS16200		NS16200		NS16200		NS16200		NS16200		NS16200		NS16200		NS16200		NS16200		NS16200		NS16200		NS16200	
Memory Size (GB)	8		8		8		8		8		8		8		8		8		8		8		8	
Disk Process	3		3		16		16		14		14		18		18		0		0		0		0	
CPU Out of Balance	N		Y		N		N		Y		N		N		N		Y		N		Y		N	
	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
CPU Busy %	50	54	37	40	52	54	48	50	54	58	51	54	53	56	52	55	32	35	46	49	31	33	39	42
CPU Q Length	2.28	2.63	0.98	1.12	3.09	4.06	2.07	2.74	2.34	3.67	2.36	2.69	2.16	2.48	1.72	1.91	0.82	0.88	1.54	1.70	0.83	0.91	3.56	4.24
Dispatch rate	21,722	23,580	15,866	16,852	23,174	24,004	21,378	22,577	24,202	26,121	22,463	23,840	26,276	28,838	25,745	26,994	10,899	11,615	14,036	14,775	9,397	9,839	13,668	14,392
Swap rate	0.80	1.63	1.29	3.71	0.78	2.19	0.80	2.10	0.76	2.24	1.15	2.33	0.78	2.22	0.87	1.42	1.02	2.06	0.95	1.89	1.07	2.33	0.88	2.20
Processes	2,085	2,085	2,567	2,567	2,170	2,170	2,361	2,361	2,080	2,080	2,193	2,193	2,110	2,110	2,009	2,009	2,067	2,067	2,153	2,153	2,108	2,108	2,160	2,160
Low PIN	90	93	123	126	137	139	88	148	129	130	94	128	95	96	96	100	53	58	31	63	59	64	40	69
Transient Processes	N/A	479	N/A	870	N/A	384	N/A	598	N/A	344	N/A	489	N/A	428	N/A	343	N/A	606	N/A	654	N/A	622	N/A	671
Disk Volume Busy	9.12	26.10	0.00	0.00	3.23	5.63	17.01	79.95	9.21	27.23	7.62	16.24	8.84	37.55	12.31	43.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Disk Process Busy	1.14	2.30	0.00	0.00	1.64	2.74	1.35	2.98	1.64	3.46	1.51	2.29	1.39	4.27	1.42	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Mem used	60.06	60.49	56.20	56.49	80.01	80.47	81.26	82.00	77.61	78.41	75.30	76.01	79.95	81.56	76.88	77.29	48.93	49.48	48.37	48.63	48.69	49.90	74.23	76.83
Mem left GB	3.20	3.24	3.50	3.54	1.60	1.65	1.50	1.54	1.79	1.85	1.98	2.03	1.60	1.67	1.85	1.89	4.09	4.14	4.13	4.15	4.10	4.21	2.06	2.22

Table of Contents / About / Node Overview / Processor Overview / Sys Perf Score / Global Performance Indicators

Hewlett Pac
Enterprise

You liked this in the 80s.

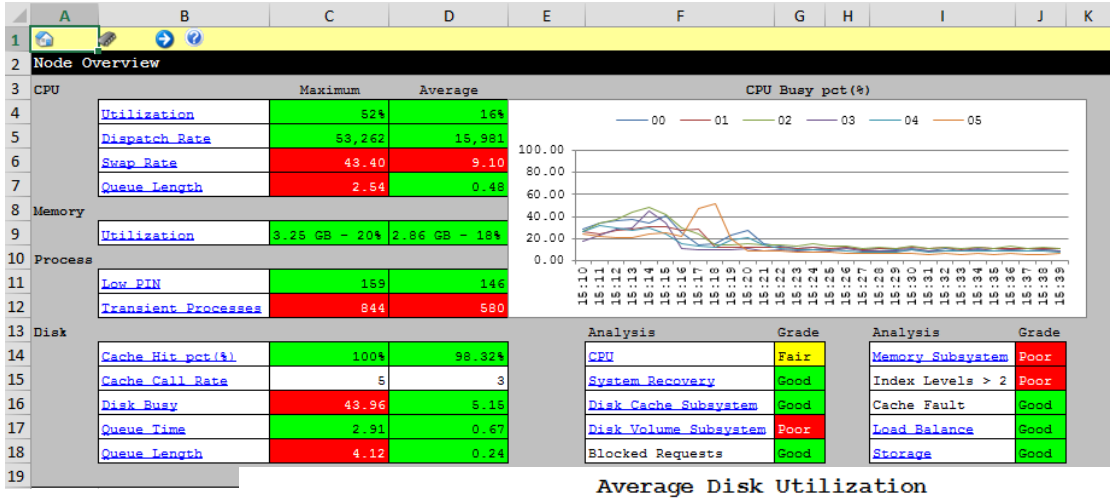
```
CPU            PROCESSOR LOAD BALANCE CHART
NUM
---            ROUNDED TO NEAREST TWO PERCENT (2%)
    |----+----+----wwww^wwww-+----+----+----+----+----|
  0 |+++++-------------^-->
  1 |+++++-------------^-->
  2 |++++-------------->^
  3 |+++--------->     ^
    |----+----+----wwww^wwww-+----+----+----+----+----|
   0    1    2    3    4    5    6    7    8    9    1
        0    0    0    0    0    0    0    0    0    0
                                                      0
     CPU PERCENT BUSY -------------------------------->


     PROCESSOR PERFORMANCE CHART

1 CPU  NUM   :     0       1       2       3
2 CPU  TYPE  :    TXP     TXP     TXP     TXP
3 MB   MEMORY:     8       8       8       8
4 PCT  BUSY% :    45.54   43.63   36.66   26.93
```

```
MEASURE Load ID: M0328N3  - 28 MAR 2006, 13:27:30 to 13:27:40 (   10 secs)
-----------------------------------------------------------------------------
          @@@@@@@@@@    @@@@@@@@@@        @@@       @@@     @@@
         @@@@@@@@@@@    @@@@@@@@@@     @@@ @@@     @@@@   @@@@
         @@@     @@@    @@@     @@@    @@@   @@@    @@@@@ @@@@@
         @@@            @@@     @@@    @@@     @@@  @@@@@@@@@@@
         @@@@@@@@@@     @@@@@@@@@@     @@@@@@@@@@   @@@ @@@ @@@
          @@@@@@@@@@    @@@@@@@@@@     @@@@@@@@@@   @@@  @  @@@
                 @@@    @@@            @@@     @@@   @@@     @@@
         @@@     @@@    @@@            @@@     @@@   @@@     @@@
         @@@@@@@@@@@    @@@            @@@     @@@   @@@     @@@
          @@@@@@@@@@    @@@            @@@     @@@   @@@     @@@
                                REPORTS
                                  for
                            A NonStop Service
                       Produced 29 MAR 2006 @ 15:54
                  Copyright Hewlett-Packard Company 2002
-----------------------------------------------------------------------------
SPAMH01 V5.5 (16Sep05)                                   NonStop Services
MEASURE Load ID: M0328N3  - 28 MAR 2006, 13:27:30 to 13:27:40 (   10 secs)
-----------------------------------------------------------------------------
```

```
MEASURE Load ID: M0328N3  - 28 MAR 2006, 13:27:30 to 13:27:40  (Window:    10.33 seconds)
==================================================================================================================
PHYSICAL DISC I/O Activity Report for System \RS06      (Release H06)
---------------------------------
                     Avge.                                                                          <----AVERAGES P
             Rqsts/ Servce              Total  <-I/Os PER SECOND-->  <--BYTES TRANSFERRED PER SECOND--->  <---Bytes--->
$Device  LDV Second (msec)  PC Gr.Md.Sl Busy%   Reads Writes  Seeks        Input      Output       Total    Read  Write
======== === ------ ------  -- -------- -----  ------ ------ ------  ----------- ----------- -----------  ------ ------
$XATA43  232                09 >>.02.01   .7%      .5    5.2              1,292      71,680      72,972   2,662 13,672
$XATA49  227    7.7     .7  07 >>.02.01                                      0           0           0
                            07 >>.03.01   .0%            1.0                  0       3,977       3,977           4,096
                            07 >>.02.01   .1%            1.0                  0       3,977       3,977           4,096
$XATA53  223    1.1     .0  03 >>.02.01                                      0           0           0
                            03 >>.03.01   .0%             .2                  0       6,363       6,363          32,768
                            03 >>.02.01   .0%             .2                  0       6,363       6,363          32,768
$XATA54  222   13.0     .0  03 >>.02.01                                      0           0           0
                            03 >>.03.01   .0%             .2                  0       6,363       6,363          32,768
                            03 >>.02.01   .0%             .2                  0       6,363       6,363          32,768
$XATA55  221  396.7     .2  07 >>.03.01                                      0           0           0
                            07 >>.02.01  3.4%           66.1                  0     271,211     271,211           4,096
                            07 >>.02.01  3.8%           66.1                  0     271,211     271,211           4,096
$XATA58  218   18.8     .1  09 >>.02.01                                      0           0           0
                            09 >>.03.01   .0%             .8                  0       3,181       3,181           4,096
                            09 >>.02.01   .0%             .8                  0       3,181       3,181           4,096
$XATA60  216  118.0     .3  07 >>.02.01                                      0           0           0
$XATA65  211    6.8     .8  09 >>.02.01                                      0           0           0
                            09 >>.03.01   .1%            1.9                  0       4,474       4,474           2,304
                            09 >>.02.01   .1%            1.9                  0       4,474       4,474           2,304
$XATA66  210  132.2     .4  09 >>.02.01                                      0           0           0
                            09 >>.03.01   .8%           23.1                  0      53,238      53,238           2,304
                            09 >>.02.01   .9%           23.1                  0      53,238      53,238           2,304
```

Hewlett Packard Enterprise

You need this today.

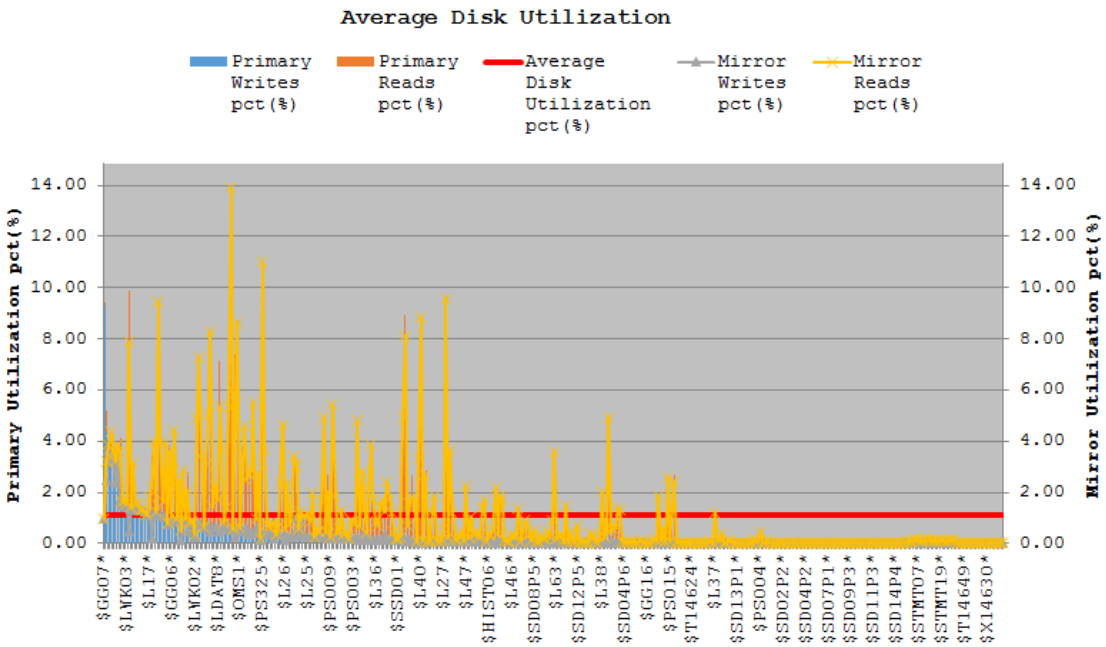


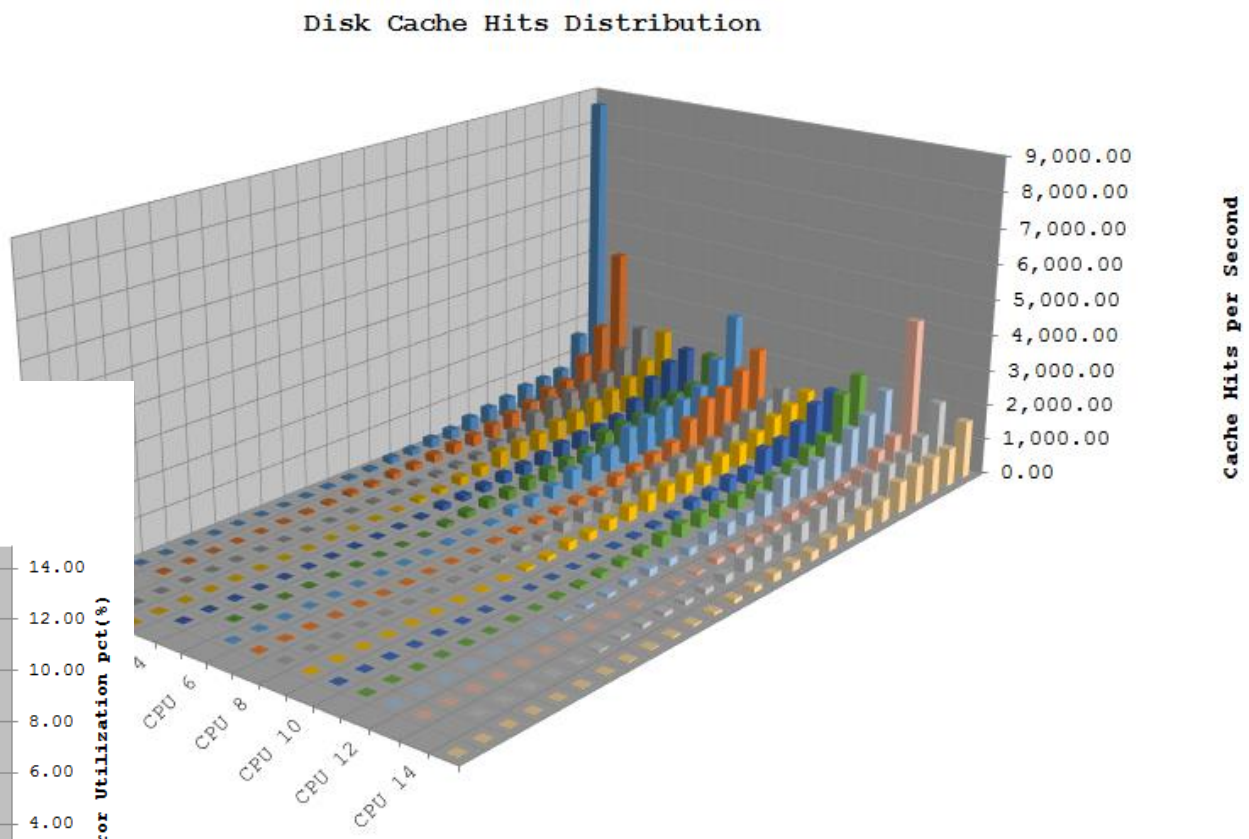
Node Overview

		Maximum	Average
CPU			
	Utilization	52%	16%
	Dispatch Rate	53,262	15,981
	Swap Rate	43.40	9.10
	Queue Length	2.54	0.48
Memory			
	Utilization	3.25 GB - 20%	2.86 GB - 18%
Process			
	Low PIN	159	146
	Transient Processes	844	580
Disk			
	Cache Hit pct(%)	100%	98.32%
	Cache Call Rate	5	3
	Disk Busy	43.96	5.15
	Queue Time	2.91	0.67
	Queue Length	4.12	0.24

Analysis	Grade
CPU	Fair
System Recovery	Good
Disk Cache Subsystem	Good
Disk Volume Subsystem	Poor
Blocked Requests	Good

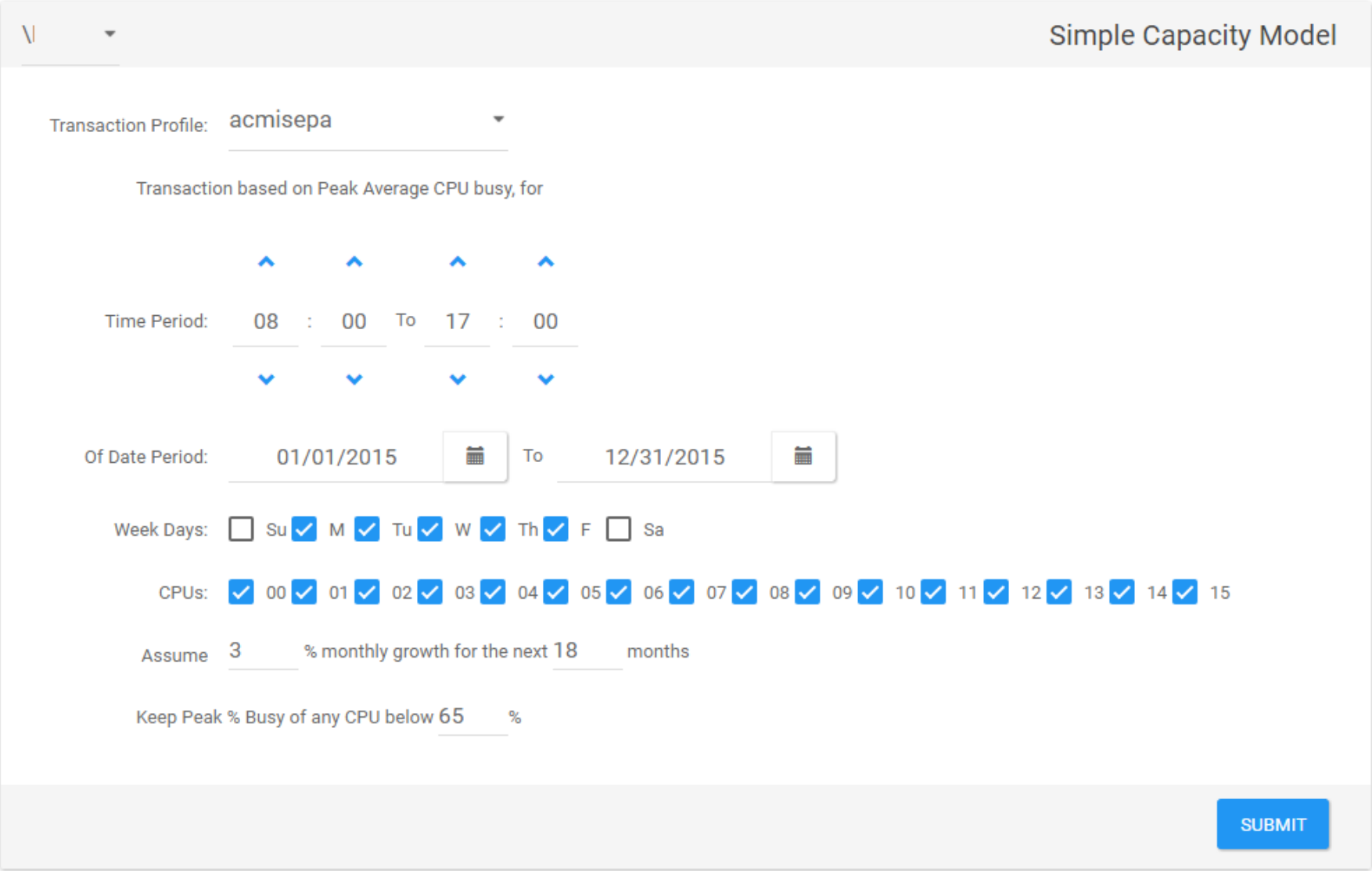
Analysis	Grade
Memory Subsystem	Poor
Index Levels > 2	Poor
Cache Fault	Good
Load Balance	Good
Storage	Good





Hewlett Packard Enterprise

Simple Capacity Model



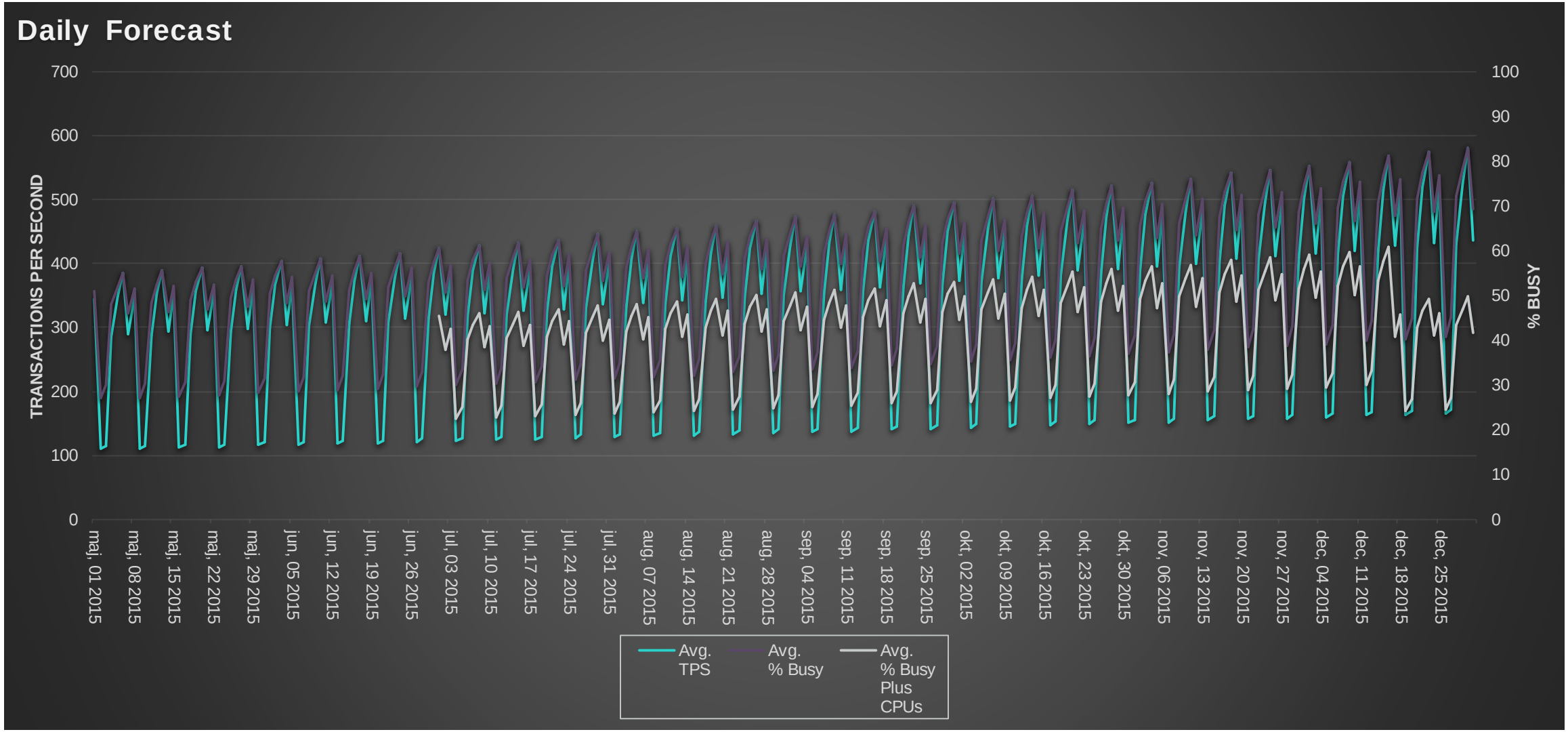
Hewlett Packard Enterprise

Transaction Growth – Resource Requirements

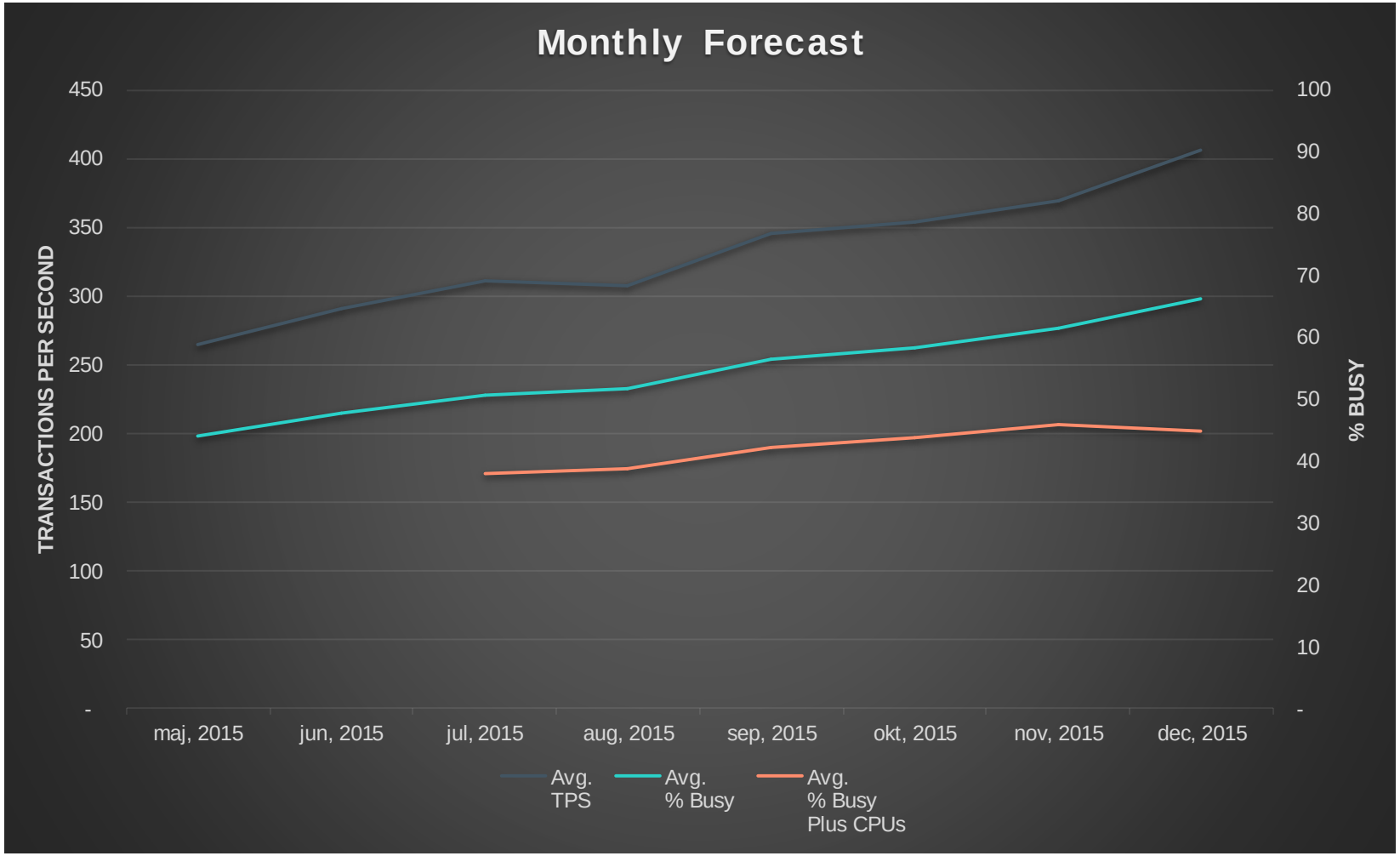
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Forecast TPS & CPU Busy, with added CPUs															
2	Day	Time	TPS	Avg. % Busy	00	01	02	03	04	05	06	07	08	09	10	11
96		23:15	124	29	21	31	15	33	35	40	15	23	39	39		
97		23:30	200	26	22	28	27	23	14	15	15	38	38	38		
98		23:45	137	31	35	31	13	40	17	37	36	18	40	40		
99	May 31, 2015	00:00	155	34	15	37	28	44	40	29	29	45	36	36		
100	Tuesday	00:15	140	26	37	10	17	10	19	44	10	42	35	35		
101		00:30	120	26	26	18	33	26	14	25	25	14	40	40		
102		00:45	101	28	29	21	38	14	21	35	22	21	40	40		
103		01:00	111	25	24	35	15	27	43	27	10	13	30	30		
104		01:15	149	31	43	33	25	13	29	15	41	41	33	33		
105		01:30	149	25	16	25	12	13	11	40	26	29	39	39		
106		01:45	137	28	36	24	17	36	26	15	44	10	37	37		
107		02:00	183	29	42	30	28	31	28	13	14	20	40	40		
108		02:15	140	25	37	10	17	10	19	44	10	42	31	31		
109		02:30	120	25	26	18	33	26	14	25	25	14	32	32		
110		02:45	101	28	29	21	38	14	21	35	22	21	38	38		
111		03:00	111	26	24	35	15	27	43	27	10	13	32	32		
112		03:15	149	30	43	33	25	13	29	15	41	41	32	32		
113		03:30	149	25	16	25	12	13	11	40	26	29	40	40		
114		03:45	137	27	36	24	17	36	26	15	44	10	31	31		
115		04:00	183	27	42	30	28	31	28	13	14	20	34	34		
116		04:15	140	25	37	10	17	10	19	44	10	42	30	30		
117		04:30	120	26	26	18	33	26	14	25	25	14	37	37		
118		04:45	315	70	85	90	80	74	80	74	78	80	30	30		
119		05:00	111	24	24	35	15	27	43	27	10	13	31	31	Add	Add
120		05:15	149	30	43	33	25	13	29	15	41	41	35	35	20	20
121		05:30	149	22	16	25	12	13	11	40	26	29	36	36	30	30
122		05:45	137	26	36	24	17	36	26	15	44	10	34	34	34	34
123		06:00	183	26	42	30	28	31	28	13	14	20	34	34	30	30

Hewlett Packard Enterprise

Simple Capacity Model



Capacity Model – Resource Requirements



Hewlett Packard Enterprise

More:

- User Defined Counters
- Base 24
- Telco INS / HLR
- Linux / CLIMs
- In-house applications
- Behavior Analyses
- NS Live

Secure – Power – Simple – Always On

- Fully automated
- Any device.
- No client software to install, ever!
- Secured access from any place, any time
- Unlimited access and analyses
- Simple one-time installation on NonStop
- Same price, for any Processor type or count
- One, three, and five year terms

Performance Solutions

Remote or Local Analyst, your choice

Cloud Solution	1-Year	3-Year	5-Year
Remote Analyst	HPRAS1Y	HPRAS3Y	HPRAS5Y

Hewlett Packard Enterprise

Thank you

WebViewPoint@hpe.com

Support@remoteanalyst.com