

Testing cisco_cpu_util.xml, cisco_cpu_util.php and how they handle cpmCPUTotalPhysicalIndex changes

```
! From the php script comments...
# cpmCPUTotalIndex is the logical choice for this indexed script query, but
#   by definition cpmCPUTotalIndex is not persistent
#
# cpmCPUTotalTable
#   cpmCPUTotalEntry
#       cpmCPUTotalIndex (1)          <== CPU index
#       cpmCPUTotalPhysicalIndex (2)
#       cpmCPUTotal5secRev (6)        <== CPU stats
#       cpmCPUTotal1minRev (7)        <==
#       cpmCPUTotal5minRev (8)        <==
#
# fortunately, the name of each CPU appears to be static, so we can use it;
# the name is tied to cpmCPUTotalIndex by way of cpmCPUTotalPhysicalIndex
#
# cpmCPUTotalPhysicalIndex = entPhysicalIndex
#
# CPU name = entPhysicalName.cpmCPUTotalPhysicalIndex
#
# entPhysicalTable
#   entPhysicalEntry
#       entPhysicalIndex (1)
#       entPhysicalName (7)
#
#
```

```
! We'll use the following 7600 for this test
F241-37-25-7600-3#sh mod
```

Mod	Ports	Card Type	Model	Serial No.
2	4	CEF720 4 port 10-Gigabit Ethernet	WS-X6704-10GE	SAL09232S99
5	2	Supervisor Engine 720 (Active)	WS-SUP720-3BXL	SAD08320GE0
6	2	Supervisor Engine 720 (Hot)	WS-SUP720-3BXL	SAL09211KNN
7	1	1-subslot SPA Interface Processor-600	7600-SIP-600	JAB1003032A

Mod	MAC addresses	Hw	Fw	Sw	Status
2	0014.697a.9668 to 0014.697a.966b	2.2	12.2(14r)S5	12.2(33)SRC	Ok
5	0011.21b9.8c28 to 0011.21b9.8c2b	4.0	8.1(3)	12.2(33)SRC	Ok
6	0012.dae4.4f28 to 0012.dae4.4f2b	4.3	8.1(3)	12.2(33)SRC	Ok
7	0011.5c4a.fe58 to 0011.5c4a.fe97	1.1	12.2(18r)SX4	12.2(33)SRC	Ok

Mod	Sub-Module	Model	Serial	Hw	Status
2	Distributed Forwarding Card	WS-F6700-DFC3BXL	SAD09210897	3.1	Ok
5	Policy Feature Card 3	WS-F6K-PFC3BXL	SAD08310APT	1.3	Ok
5	MSFC3 Daughterboard	WS-SUP720	SAD081500UH	2.1	Ok
6	Policy Feature Card 3	WS-F6K-PFC3BXL	SAL09211G85	1.6	Ok
6	MSFC3 Daughterboard	WS-SUP720	SAL09158YQ4	2.3	Ok
7	SIP-600 Distributed Forward	7600-SIP-600-DC	JAB1003030X	1.0	Ok
7/0	1x10GE XFP SPA	SPA-1XTENGE-XFP	JAB10210K3X	3.2	Ok

```
Mod Online Diag Status
-----
2 Pass
5 Pass
6 Pass
7 Pass
7/0 Pass
```

```
F241-37-25-7600-3#sh redundancy
Redundant System Information :
```

```
-----
Available system uptime = 1 day, 3 hours, 53 minutes
Switchovers system experienced = 4
Standby failures = 0
Last switchover reason = user initiated

Hardware Mode = Duplex
Configured Redundancy Mode = sso
Operating Redundancy Mode = sso
Maintenance Mode = Disabled
```

Communications = Up

Current Processor Information :

```
-----
      Active Location = slot 5
      Current Software state = ACTIVE
      Uptime in current state = 31 minutes
      Image Version = Cisco IOS Software, c7600s72033_rp Software (c7600s72033_rp-
ADVIPSERVICESK9-M), Version 12.2(33)SRC, RELEASE SOFTWARE (fc3)
      Technical Support: http://www.cisco.com/techsupport
      Copyright (c) 1986-2008 by Cisco Systems, Inc.
      Compiled Fri 11-Jan-08 14:39 by prod_rel_team
      BOOT = disk0:c7600s72033-advipservicesk9-mz.122-33.SRC.bin,1;
      CONFIG_FILE =
      BOOTLDR =
      Configuration register = 0x2102
```


Peer Processor Information :

```
-----
      Standby Location = slot 6
      Current Software state = STANDBY HOT
      Uptime in current state = 25 minutes
      Image Version = Cisco IOS Software, c7600s72033_rp Software (c7600s72033_rp-
ADVIPSERVICESK9-M), Version 12.2(33)SRC, RELEASE SOFTWARE (fc3)
      Technical Support: http://www.cisco.com/techsupport
      Copyright (c) 1986-2008 by Cisco Systems, Inc.
      Compiled Fri 11-Jan-08 14:39 by prod_rel_team
      BOOT = disk0:c7600s72033-advipservicesk9-mz.122-33.SRC.bin,1;
      CONFIG_FILE =
      BOOTLDR =
      Configuration register = 0x2102
```

```
! Here is a snapshot of the SNMP info
! Notice that the 7600 includes the active Supervisor's CPUs (RP5, SP5) and does not include the
! standby Supervisor's CPUs (RP6, SP6)
snmpwalk -v2c -c public 13.10.253.11 .1.3.6.1.4.1.9.9.109.1.1.1.2
CISCO-PROCESS-MIB::cpmCPUTotalPhysicalIndex.1 = INTEGER: 2017
CISCO-PROCESS-MIB::cpmCPUTotalPhysicalIndex.2 = INTEGER: 2001
CISCO-PROCESS-MIB::cpmCPUTotalPhysicalIndex.3 = INTEGER: 4008
CISCO-PROCESS-MIB::cpmCPUTotalPhysicalIndex.4 = INTEGER: 1007
```

```
snmpwalk -v2c -c public 13.10.253.11 .1.3.6.1.2.1.47.1.1.1.1.7 | grep CPU
ENTITY-MIB::entPhysicalName.1007 = STRING: CPU of Sub-Module 2 DFC Card
ENTITY-MIB::entPhysicalName.2001 = STRING: CPU of Switching Processor 5
ENTITY-MIB::entPhysicalName.2017 = STRING: CPU of Routing Processor 5
ENTITY-MIB::entPhysicalName.3001 = STRING: CPU of Switching Processor 6
ENTITY-MIB::entPhysicalName.3017 = STRING: CPU of Routing Processor 6
ENTITY-MIB::entPhysicalName.4008 = STRING: CPU of Sub-Module 7 DFC Card
```

! Cacti: on Device page for the CMTS, run verbose query for 'Cisco - CPU Utilization'

Associated Data Queries				
Data Query Name	Debugging	Re-Index Method	Status	
1) Cisco - CPU Utilization	(Verbose Query)	Uptime Goes Backwards	Success [12 Items, 4 Rows]	
Add Data Query:	Cisco - CPU Usage (Multiple CPUs)		Re-Index Method:	Uptime Goes Backwards 

```
! Notice that the indices that Cacti finds are the same ones above from the snmpwalk
! The php script replaces whitespace in the CPU name with underscores; this was done to simplify the
! xml to script parameter passing.
```

Data Query Debug Information

```
+ Running data query [33].
+ Found type = '4' [script query].
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
+ XML file parsed ok.
+ Executing script for list of indexes '/usr/bin/php -q /usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" index'
+ Executing script query '/usr/bin/php -q /usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" query index'
+ Found item [cpuName='CPU_of_Routing_Processor_5'] index: CPU_of_Routing_Processor_5
+ Found item [cpuName='CPU_of_Switching_Processor_5'] index: CPU_of_Switching_Processor_5
+ Found item [cpuName='CPU_of_Sub-Module_7_DFC_Card'] index: CPU_of_Sub-Module_7_DFC_Card
+ Found item [cpuName='CPU_of_Sub-Module_2_DFC_Card'] index: CPU_of_Sub-Module_2_DFC_Card
+ Executing script query '/usr/bin/php -q /usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" query cpuIndex'
+ Found item [cpuIndex='1'] index: CPU_of_Routing_Processor_5
+ Found item [cpuIndex='2'] index: CPU_of_Switching_Processor_5
+ Found item [cpuIndex='3'] index: CPU_of_Sub-Module_7_DFC_Card
+ Found item [cpuIndex='4'] index: CPU_of_Sub-Module_2_DFC_Card
+ Executing script query '/usr/bin/php -q /usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" query physIndex'
+ Found item [physIndex='2017'] index: CPU_of_Routing_Processor_5
+ Found item [physIndex='4008'] index: CPU_of_Sub-Module_7_DFC_Card
+ Found item [physIndex='1007'] index: CPU_of_Sub-Module_2_DFC_Card
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
```

! Create the graphs for all the CPUs discovered by the query

F241-37-25-7600-3 (13.10.253.11)

Host: Graph Types:

[*Edit this Host](#)
[*Create New Host](#)

Graph Templates

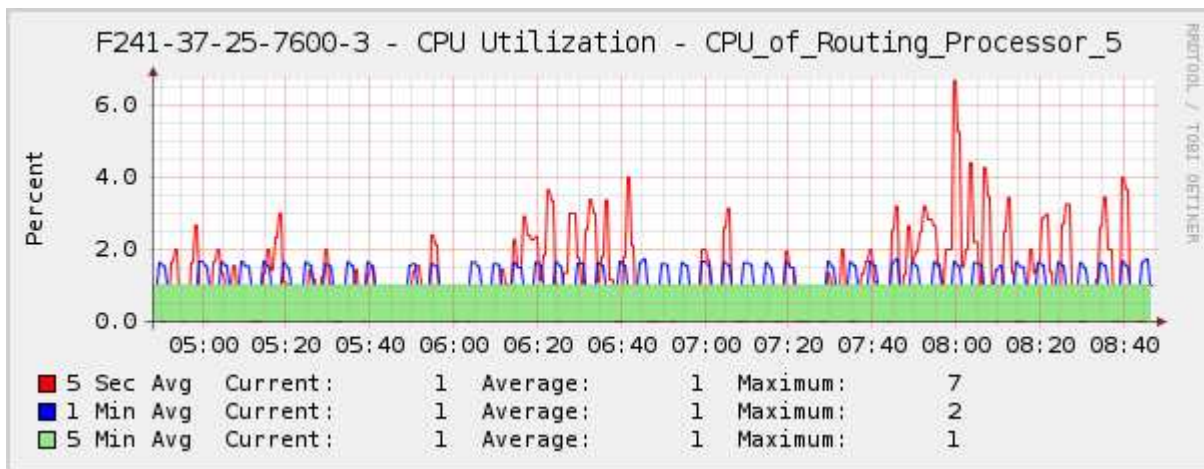
Graph Template Name

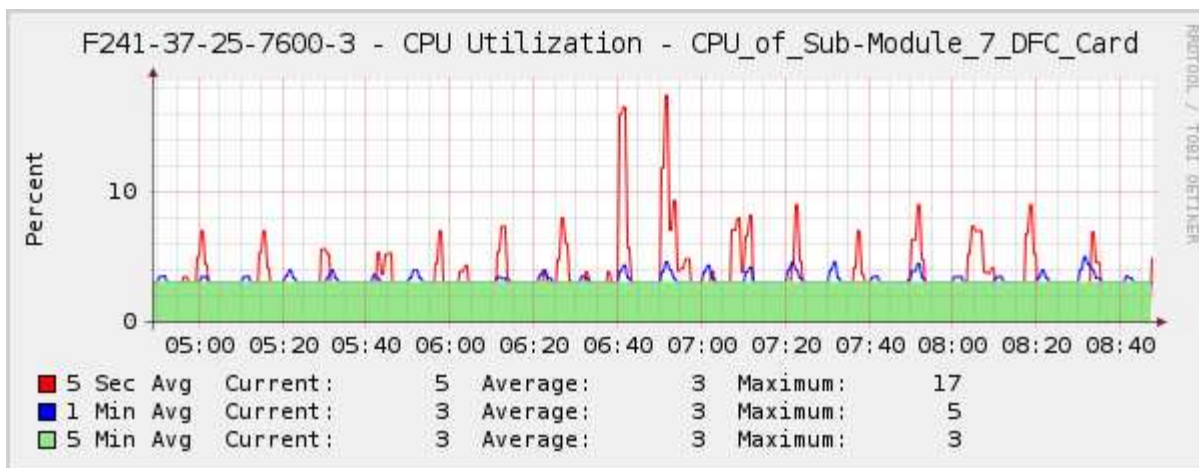
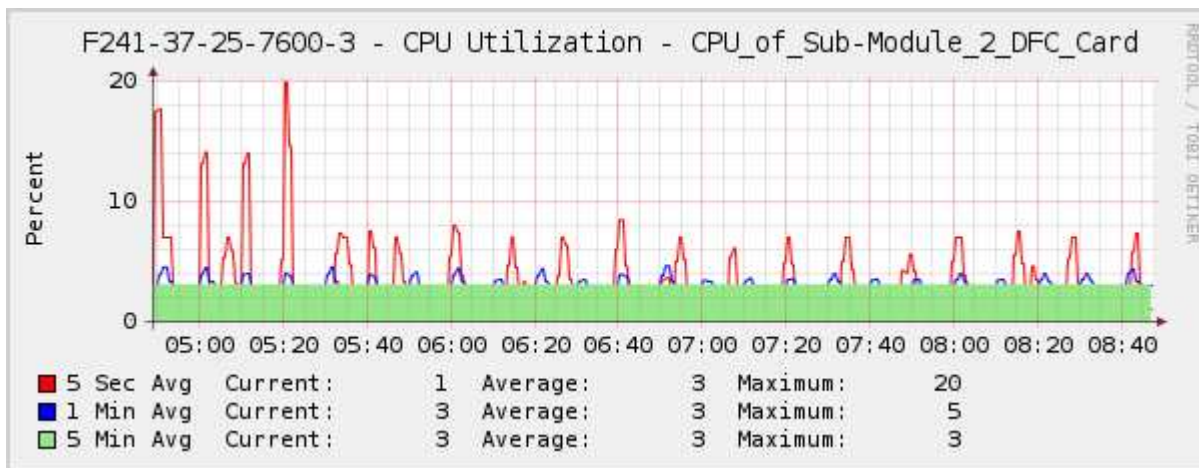
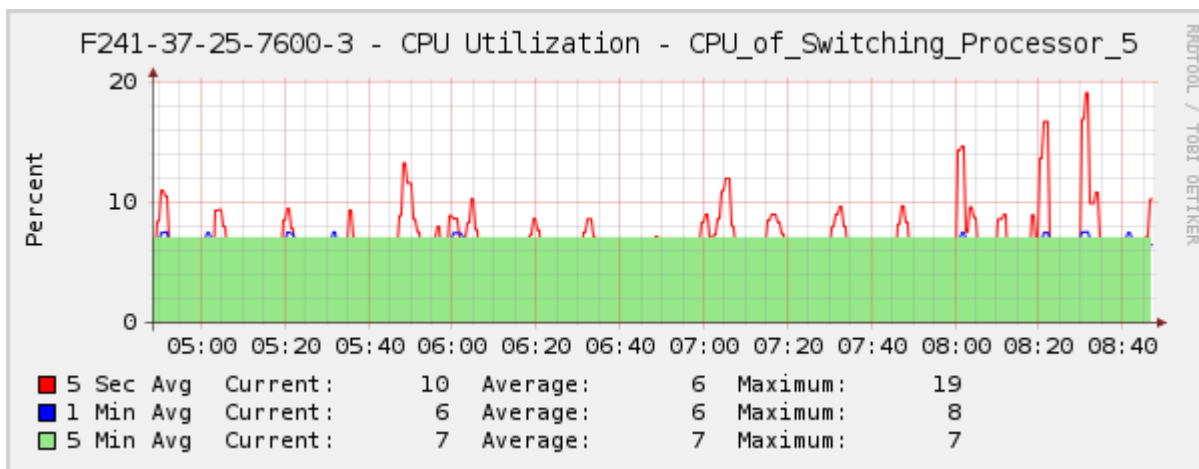
Create:

Data Query [Cisco - CPU Utilization]

CPU Name	CPU Index	Physical Index	
CPU_of_Routing_Processor_5	1	2017	<input checked="" type="checkbox"/>
CPU_of_Sub-Module_2_DFC_Card	4	1007	<input checked="" type="checkbox"/>
CPU_of_Sub-Module_7_DFC_Card	3	4008	<input checked="" type="checkbox"/>
CPU_of_Switching_Processor_5	2	2001	<input checked="" type="checkbox"/>

! Let the graphs run overnight





! Force a failover

F241-37-25-7600-3#sh clock

08:49:30.231 EDT Wed Jun 4 2008

F241-37-25-7600-3#red fo

This will reload the active unit and force switchover to standby[confirm]

Preparing for switchover..

Jun 4 08:49:35.719 EDT: %SYS-SP-3-LOGGER_FLUSHING: System pausing to ensure console debugging output.

<etc>

! output from the Supervisor in slot 6 is highlighted in blue text

Jun 4 08:55:22.454 EDT: %PFREDUN-SP-STDBY-6-STANDBY: Ready for SSO mode

F241-37-25-7600-3#sh redun

Redundant System Information :

Available system uptime = 1 day, 13 hours, 49 minutes
Switchovers system experienced = 5
Standby failures = 0
Last switchover reason = user initiated

Hardware Mode = Duplex
Configured Redundancy Mode = sso
Operating Redundancy Mode = sso
Maintenance Mode = Disabled
Communications = Up

Current Processor Information :

Active Location = slot 6
Current Software state = ACTIVE
Uptime in current state = 6 minutes
Image Version = Cisco IOS Software, c7600s72033_rp Software (c7600s72033_rp-ADVIPSERVICESK9-M), Version 12.2(33)SRC, RELEASE SOFTWARE (fc3)
Technical Support: <http://www.cisco.com/techsupport>
Copyright (c) 1986-2008 by Cisco Systems, Inc.
Compiled Fri 11-Jan-08 14:39 by prod_rel_team
BOOT = disk0:c7600s72033-advipservicesk9-mz.122-33.SRC.bin,1;
CONFIG_FILE =
BOOTLDR =
Configuration register = 0x2102

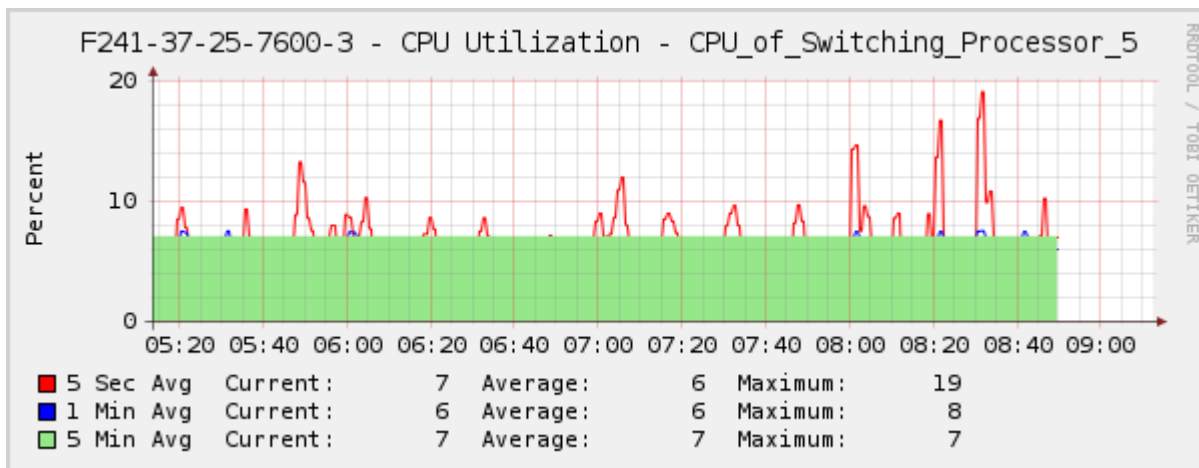
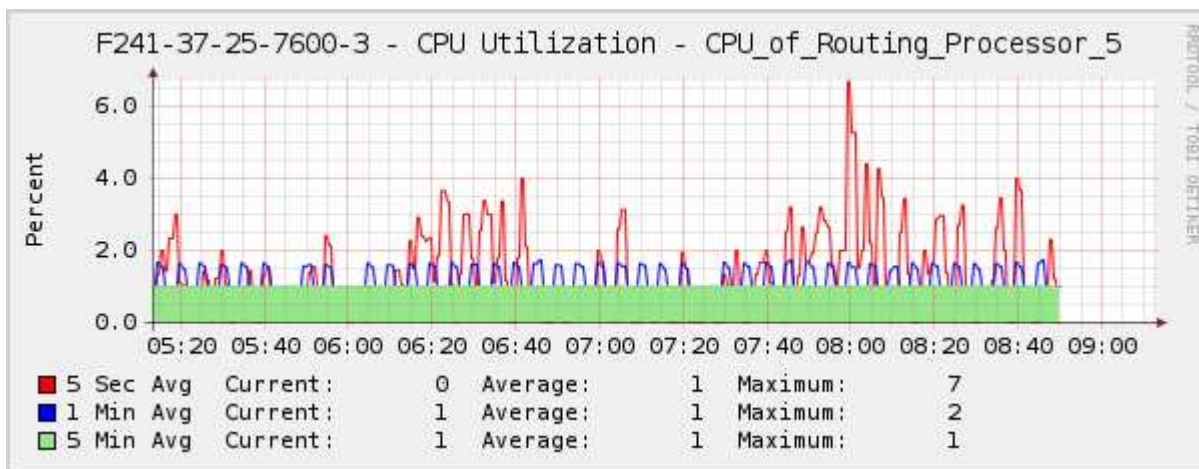
Peer Processor Information :

Standby Location = slot 5
Current Software state = STANDBY HOT
Uptime in current state = 0 minutes
Image Version = Cisco IOS Software, c7600s72033_rp Software (c7600s72033_rp-ADVIPSERVICESK9-M), Version 12.2(33)SRC, RELEASE SOFTWARE (fc3)
Technical Support: <http://www.cisco.com/techsupport>
Copyright (c) 1986-2008 by Cisco Systems, Inc.
Compiled Fri 11-Jan-08 14:39 by prod_rel_team
BOOT = disk0:c7600s72033-advipservicesk9-mz.122-33.SRC.bin,1;
CONFIG_FILE =
BOOTLDR =
Configuration register = 0x2102

! Do not rerun verbose query - let's see what happens
! Refresh Create Graphs page - slot 6 doesn't show up

Data Query [Cisco - CPU Utilization]			
CPU Name	CPU Index	Physical Index	
CPU_of_Routing_Processor_5	1	2017	
CPU_of_Sub-Module_2_DFC_Card	4	1007	
CPU_of_Sub-Module_7_DFC_Card	3	4008	
CPU_of_Switching_Processor_5	2	2001	

! Because the 7600 has removed the CPUs in on the standby Supervisor (now in slot 5) from
! cpmCPUTotalTable, the Cacti graphs show no data after the failover event (approx 9:50 am)



! If I run a verbose query, Cacti will see the CPUs on the active Supervisor in slot 6
! Notice that not only did CPU indices for the CPUs on the active Supervisor change, the CPU
! indices for the linecards changed - that's ok - the php script was designed to handle this

Data Query Debug Information

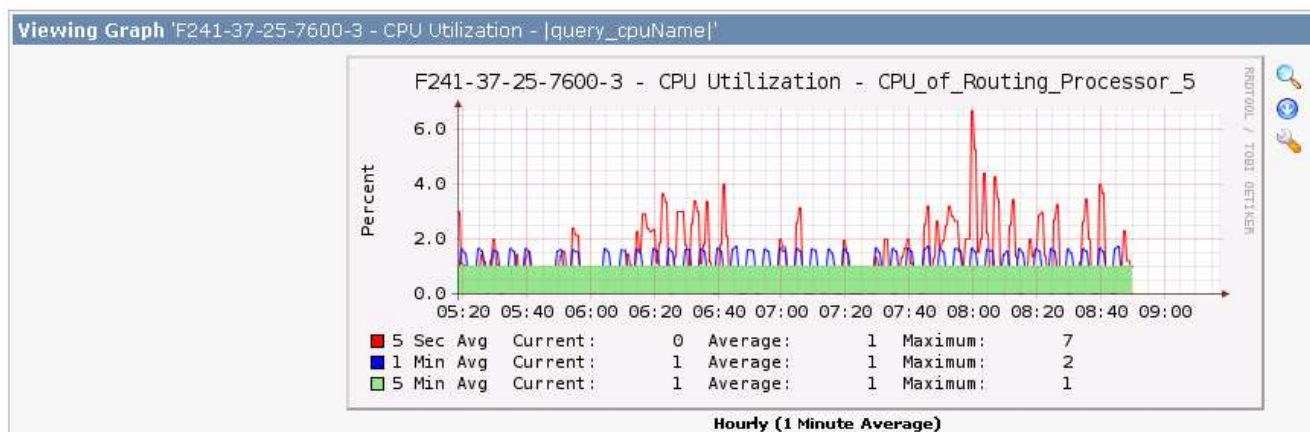
```
+ Running data query [33].
+ Found type = '4' [script query].
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
+ XML file parsed ok.
+ Executing script for list of indexes '/usr/bin/php -q /usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" index'
+ Executing script query '/usr/bin/php -q /usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" query index'
+ Found item [cpuName='CPU_of_Routing_Processor_6'] index: CPU_of_Routing_Processor_6
+ Found item [cpuName='CPU_of_Switching_Processor_6'] index: CPU_of_Switching_Processor_6
+ Found item [cpuName='CPU_of_Sub-Module_2_DFC_Card'] index: CPU_of_Sub-Module_2_DFC_Card
+ Found item [cpuName='CPU_of_Sub-Module_7_DFC_Card'] index: CPU_of_Sub-Module_7_DFC_Card
+ Executing script query '/usr/bin/php -q /usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" query cpuIndex'
+ Found item [cpuIndex='1'] index: CPU_of_Routing_Processor_6
+ Found item [cpuIndex='2'] index: CPU_of_Switching_Processor_6
+ Found item [cpuIndex='3'] index: CPU_of_Sub-Module_2_DFC_Card
+ Found item [cpuIndex='4'] index: CPU_of_Sub-Module_7_DFC_Card
+ Executing script query '/usr/bin/php -q /usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" query physIndex'
+ Found item [physIndex='3017'] index: CPU_of_Routing_Processor_6
+ Found item [physIndex='3001'] index: CPU_of_Switching_Processor_6
+ Found item [physIndex='1007'] index: CPU_of_Sub-Module_2_DFC_Card
+ Found item [physIndex='4008'] index: CPU_of_Sub-Module_7_DFC_Card
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
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+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
```

! Refresh Create Graphs page; the CPUs on the Supervisor in slot 6 are now present

Data Query [Cisco - CPU Utilization]			
CPU Name	CPU Index	Physical Index	
CPU_of_Routing_Processor_6	1	3017	<input type="checkbox"/>
CPU_of_Sub-Module_2_DFC_Card	3	1007	
CPU_of_Sub-Module_7_DFC_Card	4	4008	
CPU_of_Switching_Processor_6	2	3001	<input type="checkbox"/>

! Because Cacti has never seen the CPUs in slot 6 before, I need to create graphs for them
! I'll let them collect data while I take a moment to look at the graphs for the CPUs in slot 5

! Because the CPUs in slot 5 are no longer in cpmCPUTotalTable, the php script cannot retrieve
! their CPU names
! However, the names remain in the graphs titles and will remain there as long as I don't use the
! Cacti feature to reapply the suggested titles to the graphs
! In contrast, though, notice that page title below (Viewing Graph....) doesn't have the CPU Name;
! apparently, this is a dynamic lookup, hence the name not being found
! We'll leave things alone for the CPUs in slot 5 - I want the graphs to stay the same because I
! want the graphs to be accurate once the 7600 fails back over to the Supervisor in slot 5



! Similar situation with the data sources - the data source title doesn't change (see list below)

Data Sources [host: 13.10.253.11]							Add
Host:	F241-37-25-7600-3 (13.10.253.11)	Template:	Any	go	clear		
Method:	Any	Rows:	100 Rows				
Search:							

<< Previous		Showing Rows 1 to 6 of 6 [1]				Next >>	
Name**	ID	Data Input Method	Poller Interval	Active	Template Name		
F241-37-25-7600-3 - CPU Utilization - CPU_of_Routing_Processor_5	453	Get Script Data (Indexed)	1 Minute	Yes	Cisco - CPU Utilization	<input type="checkbox"/>	
F241-37-25-7600-3 - CPU Utilization - CPU_of_Routing_Processor_6	457	Get Script Data (Indexed)	1 Minute	Yes	Cisco - CPU Utilization	<input type="checkbox"/>	
F241-37-25-7600-3 - CPU Utilization - CPU_of_Sub-Module_2_DFC_Card	454	Get Script Data (Indexed)	1 Minute	Yes	Cisco - CPU Utilization	<input type="checkbox"/>	
F241-37-25-7600-3 - CPU Utilization - CPU_of_Sub-Module_7_DFC_Card	455	Get Script Data (Indexed)	1 Minute	Yes	Cisco - CPU Utilization	<input type="checkbox"/>	
F241-37-25-7600-3 - CPU Utilization - CPU_of_Switching_Processor_5	456	Get Script Data (Indexed)	1 Minute	Yes	Cisco - CPU Utilization	<input type="checkbox"/>	
F241-37-25-7600-3 - CPU Utilization - CPU_of_Switching_Processor_6	458	Get Script Data (Indexed)	1 Minute	Yes	Cisco - CPU Utilization	<input type="checkbox"/>	
<< Previous		Showing Rows 1 to 6 of 6 [1]				Next >>	

! ...but after clicking on the specific data source in the list, the page title shows missing CPU Name

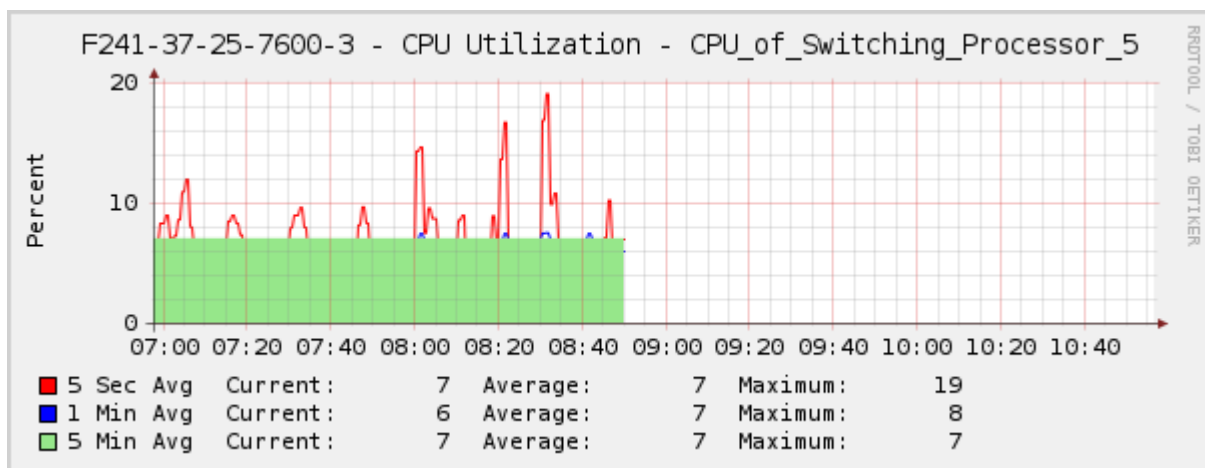
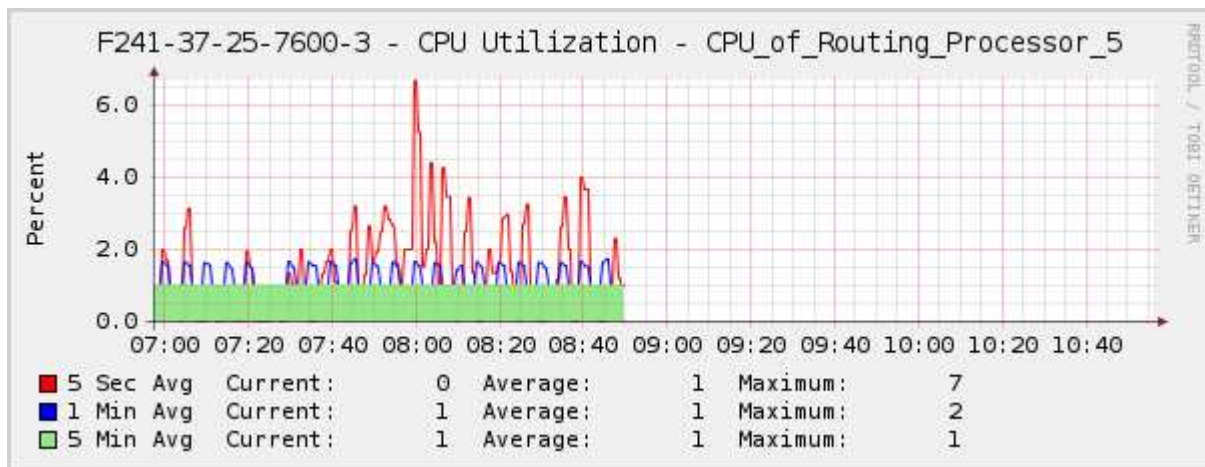
F241-37-25-7600-3 - CPU Utilization - [query_cpuName]

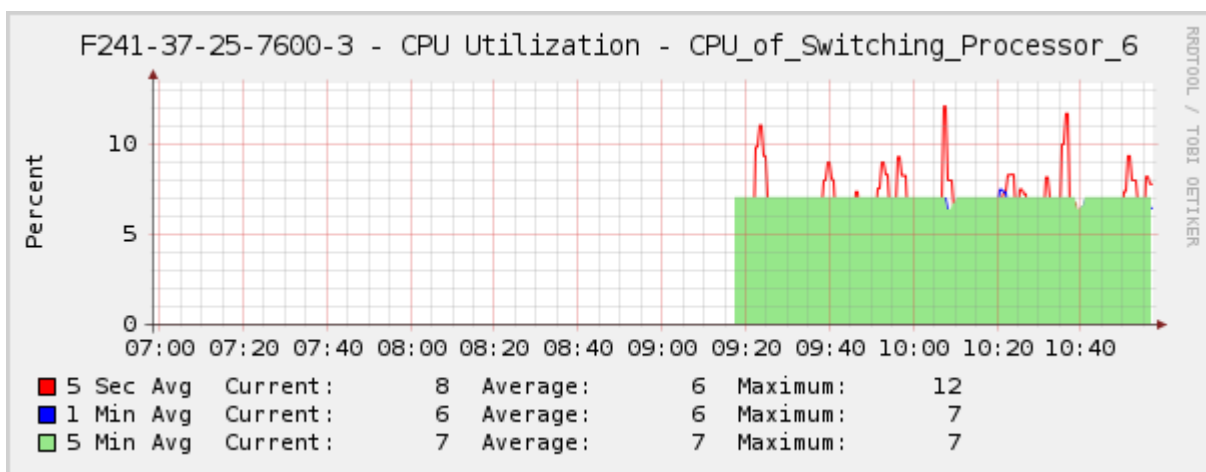
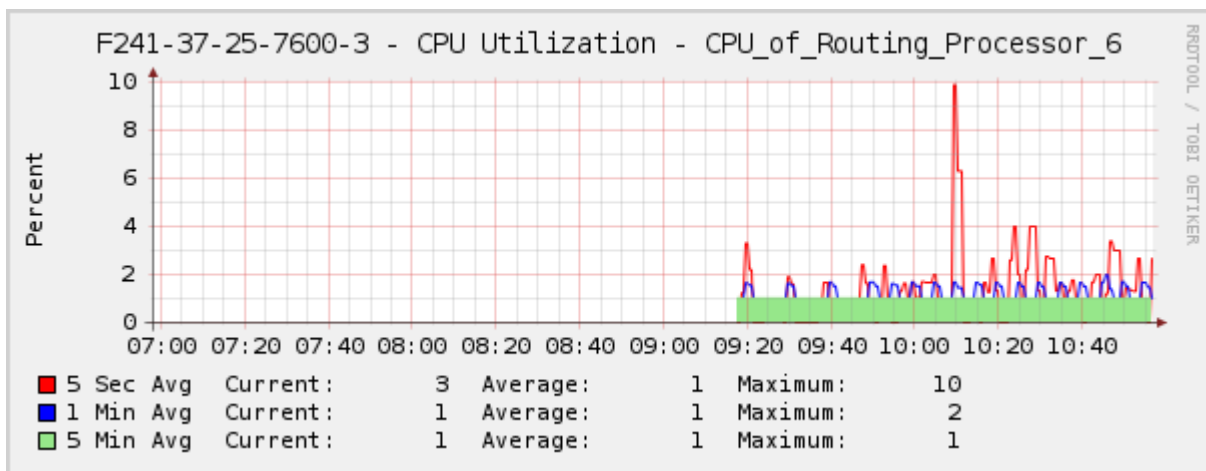
*Turn On Data Source Debug Mode.

Data Template Selection [edit: F241-37-25-7600-3 - CPU Utilization - [query_cpuName]]	
Selected Data Template The name given to this data template.	Cisco - CPU Utilization
Host Choose the host that this graph belongs to.	F241-37-25-7600-3 (13.10.253.11)
Supplemental Data Template Data	
Data Source Fields	
Data Source Path The full path to the RRD file.	<path_rra>/f241-37-25-7600-3_cpufivesec_45
Custom Data	
Index Type	cpuName
Index Value	CPU_of_Routing_Processor_5
Output Type ID	Cisco - CPU Utilization

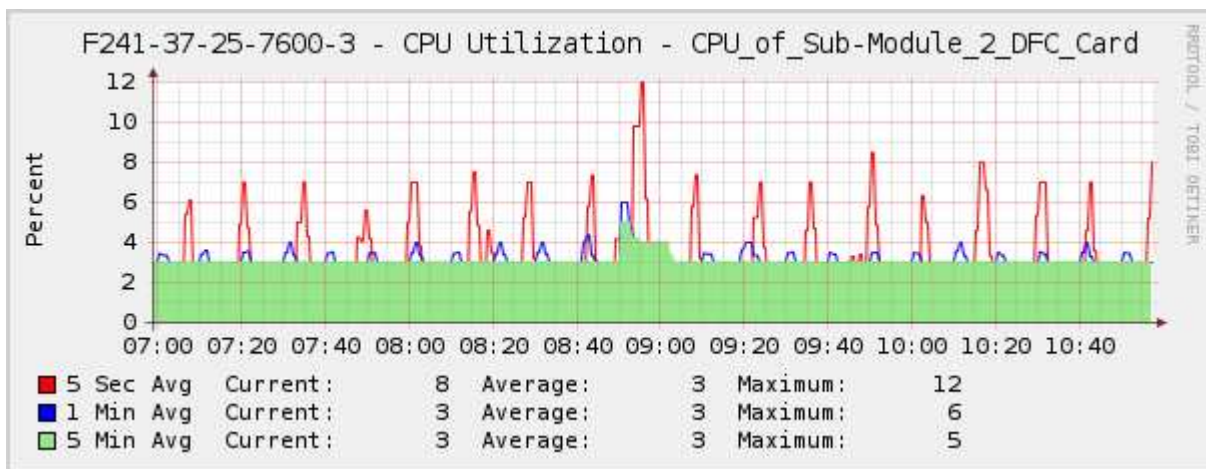
! Let the graphs run for awhile

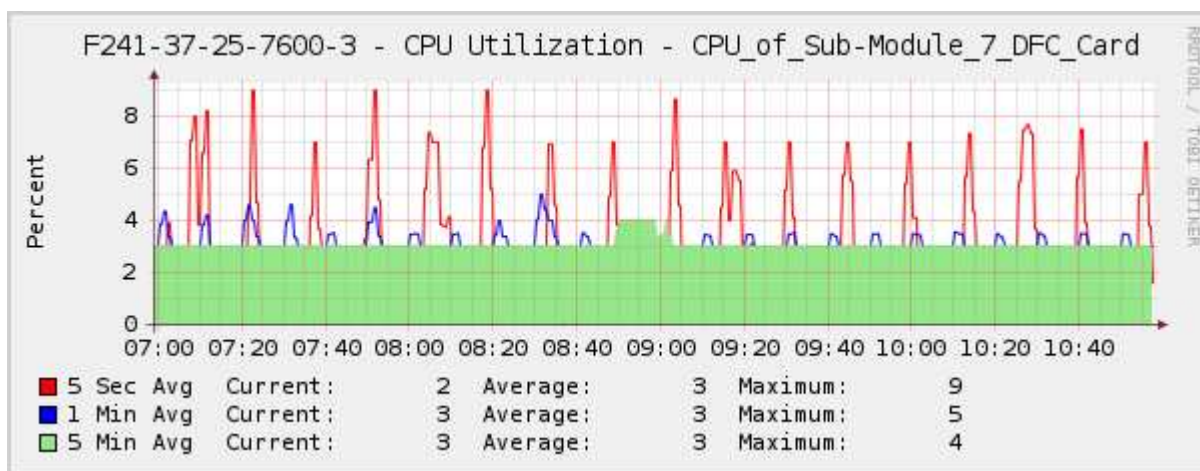
! The gap between where the slot 5 graphs end (8:50 am) and the slot 6 graphs start (about 9:17 am)
! is because I didn't create the slot 6 graphs until about 9:17 am





! The other slots are running as before; there was no impact to them even though their CPU indices changed after the failover; the php script is working as expected





! Force a failover back to slot 5

F241-37-25-7600-3#sh clock

11:01:38.566 EDT Wed Jun 4 2008

F241-37-25-7600-3#red fo

This will reload the active unit and force switchover to standby[confirm]

Preparing for switchover..

Jun 4 11:01:43.118 EDT: %SYS-SP-3-LOGGER_FLUSHING: System pausing to ensure console debugging output.
<etc>

! Slot 6

Jun 4 11:12:17.023 EDT: %PFREDUN-SP-STDBY-6-STANDBY: Ready for SSO mode

Jun 4 11:12:17.995 EDT: %RF-SP-5-RF_TERMINAL_STATE: Terminal state reached for (SSO)

F241-37-25-7600-3#sh redu

Redundant System Information :

```
-----
Available system uptime = 1 day, 16 hours, 6 minutes
Switchovers system experienced = 6
Standby failures = 1
Last switchover reason = user initiated
```

```
Hardware Mode = Duplex
Configured Redundancy Mode = sso
Operating Redundancy Mode = sso
Maintenance Mode = Disabled
Communications = Up
```

Current Processor Information :

```
-----
Active Location = slot 5
Current Software state = ACTIVE
Uptime in current state = 11 minutes
Image Version = Cisco IOS Software, c7600s72033_rp Software (c7600s72033_rp-
ADVIPSERVICESK9-M), Version 12.2(33)SRC, RELEASE SOFTWARE (fc3)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2008 by Cisco Systems, Inc.
Compiled Fri 11-Jan-08 14:39 by prod_rel_team
BOOT = disk0:c7600s72033-advipservicesk9-mz.122-33.SRC.bin,1;
CONFIG_FILE =
BOOTLDR =
Configuration register = 0x2102
```

Peer Processor Information :

```
-----
Standby Location = slot 6
Current Software state = STANDBY HOT
Uptime in current state = 0 minutes
Image Version = Cisco IOS Software, c7600s72033_rp Software (c7600s72033_rp-
ADVIPSERVICESK9-M), Version 12.2(33)SRC, RELEASE SOFTWARE (fc3)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2008 by Cisco Systems, Inc.
Compiled Fri 11-Jan-08 14:39 by prod_rel_team
BOOT = disk0:c7600s72033-advipservicesk9-mz.122-33.SRC.bin,1;
CONFIG_FILE =
```

```

BOOTLDR =
Configuration register = 0x2102

```

```

! Refresh Create Graphs page - the CPUs in slot 5 aren't seen and the CPUs in slot 6 didn't drop off
! This is because we didn't yet run a verbose query to pick up the changes

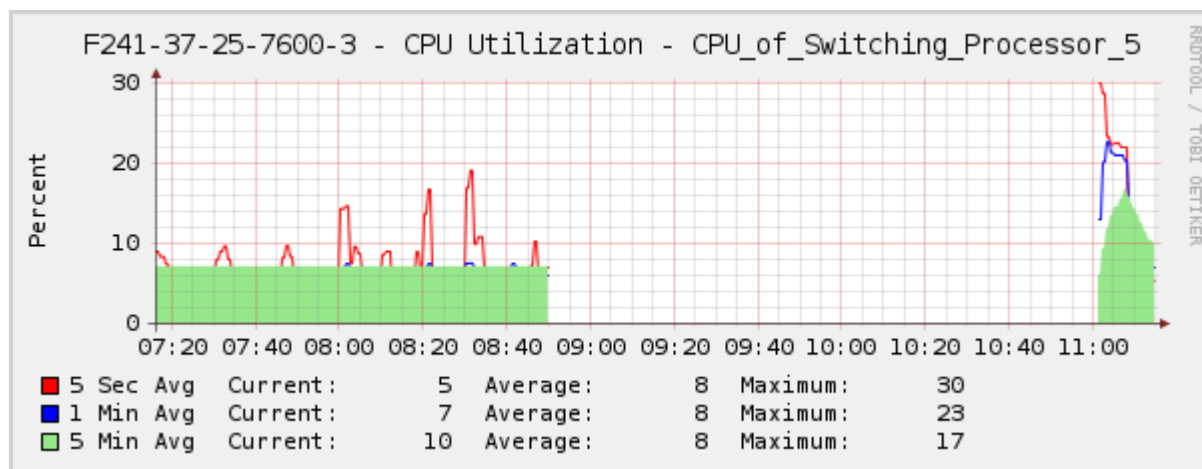
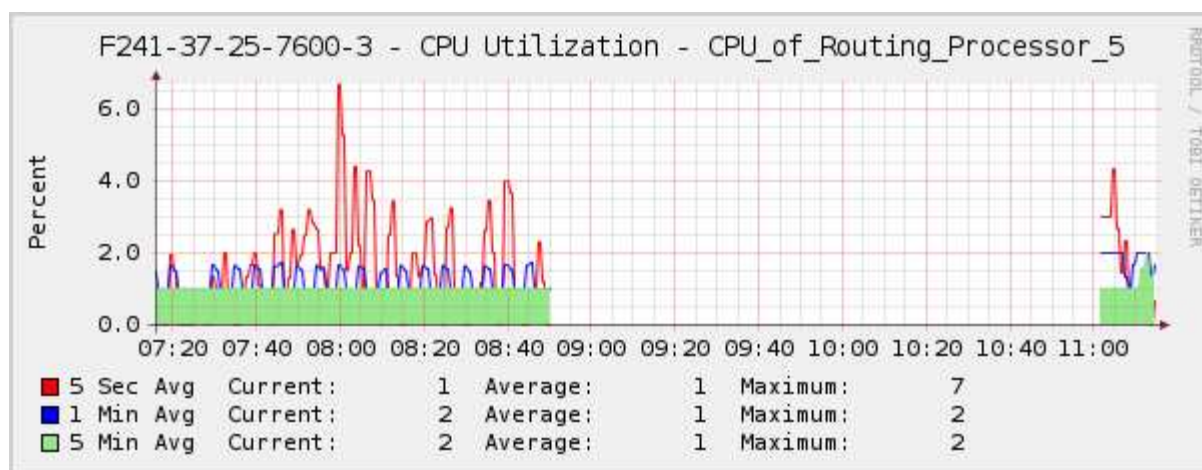
```

Data Query [Cisco - CPU Utilization]			
CPU Name	CPU Index	Physical Index	
CPU_of_Routing_Processor_6	1	3017	
CPU_of_Sub-Module_2_DFC_Card	3	1007	
CPU_of_Sub-Module_7_DFC_Card	4	4008	
CPU_of_Switching_Processor_6	2	3001	

```

! However, Cacti had still been polling for the CPUs in slot 5 all along (I never changed those data
! sources or those graphs), so the graphs pick right back up when slot 5 comes back online
! This is the second benefit of the php script (the first was that it is not affected by changes in
! the CPU index)

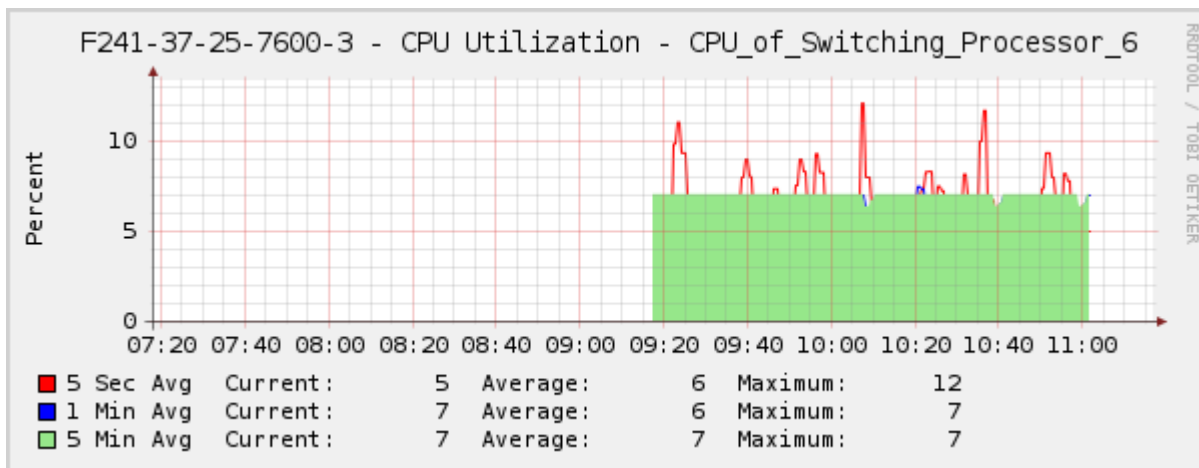
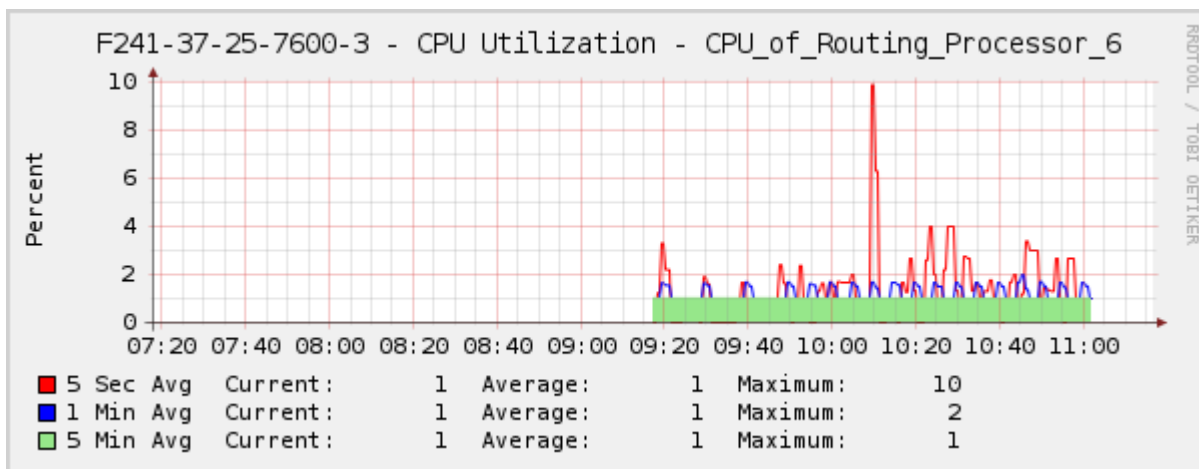
```



```

! Because the 7600 has removed the standby Supervisor (now in slot 6) from cpmCPUTotalTable,
! Cacti can not collect data for the CPUs in slot 6
! For this most recent failover, there is no gap between the collection stopping for the CPUs
! in slot 6 (approx 11:01 am) and the collection starting for the CPUs in slot 5
! This is because the data sources and graphs for both sets of CPUs were in place prior to
! the failover

```



! Ok, now I will run a verbose query to pick up changes

Data Query Debug Information

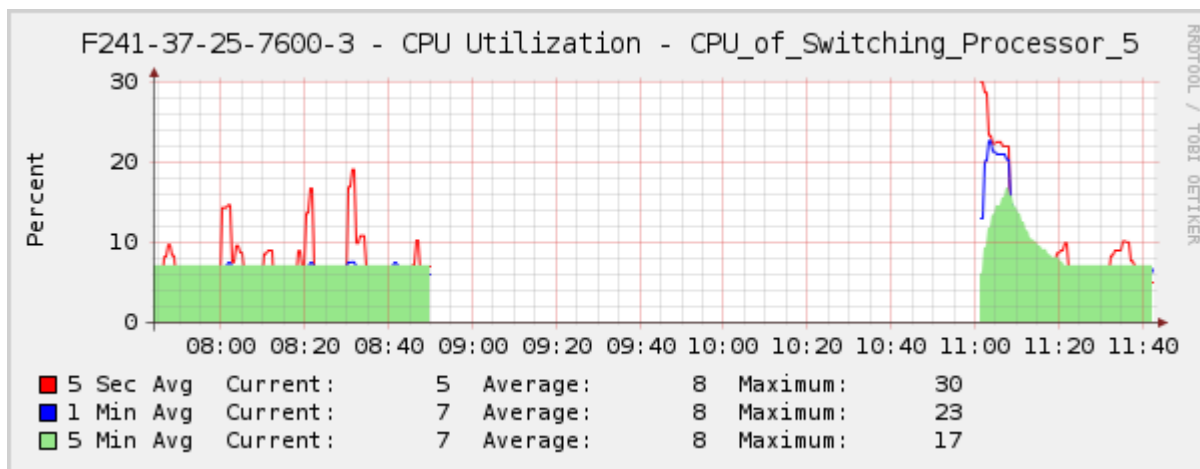
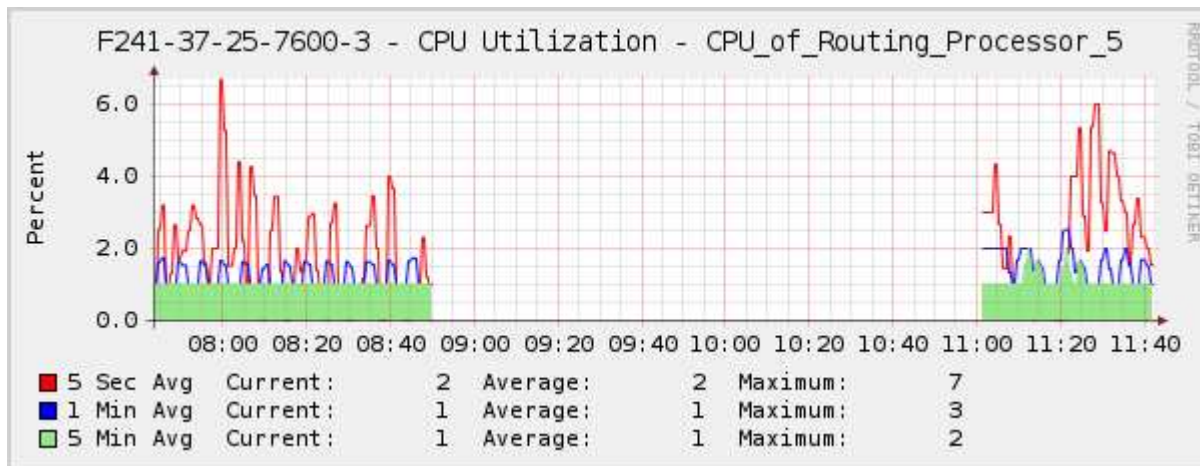
```
+ Running data query [33].
+ Found type = '4' '[script query]'.
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
+ XML file parsed ok.
+ Executing script for list of indexes '/usr/bin/php -q /usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" index'
+ Executing script query '/usr/bin/php -q /usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" query index'
+ Found item [cpuName='CPU_of_Routing_Processor_5'] index: CPU_of_Routing_Processor_5
+ Found item [cpuName='CPU_of_Sub-Module_2_DFC_Card'] index: CPU_of_Sub-Module_2_DFC_Card
+ Found item [cpuName='CPU_of_Switching_Processor_5'] index: CPU_of_Switching_Processor_5
+ Found item [cpuName='CPU_of_Sub-Module_7_DFC_Card'] index: CPU_of_Sub-Module_7_DFC_Card
+ Executing script query '/usr/bin/php -q /usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" query cpuIndex'
+ Found item [cpuIndex='1'] index: CPU_of_Routing_Processor_5
+ Found item [cpuIndex='2'] index: CPU_of_Sub-Module_2_DFC_Card
+ Found item [cpuIndex='3'] index: CPU_of_Switching_Processor_5
+ Found item [cpuIndex='4'] index: CPU_of_Sub-Module_7_DFC_Card
+ Executing script query '/usr/bin/php -q /usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" query physIndex'
+ Found item [physIndex='2017'] index: CPU_of_Routing_Processor_5
+ Found item [physIndex='1007'] index: CPU_of_Sub-Module_2_DFC_Card
+ Found item [physIndex='2001'] index: CPU_of_Switching_Processor_5
+ Found item [physIndex='4008'] index: CPU_of_Sub-Module_7_DFC_Card
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
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+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
+ Found data query XML file at '/usr/share/cacti/site/resource/script_queries/cisco_cpu_util.xml'
```

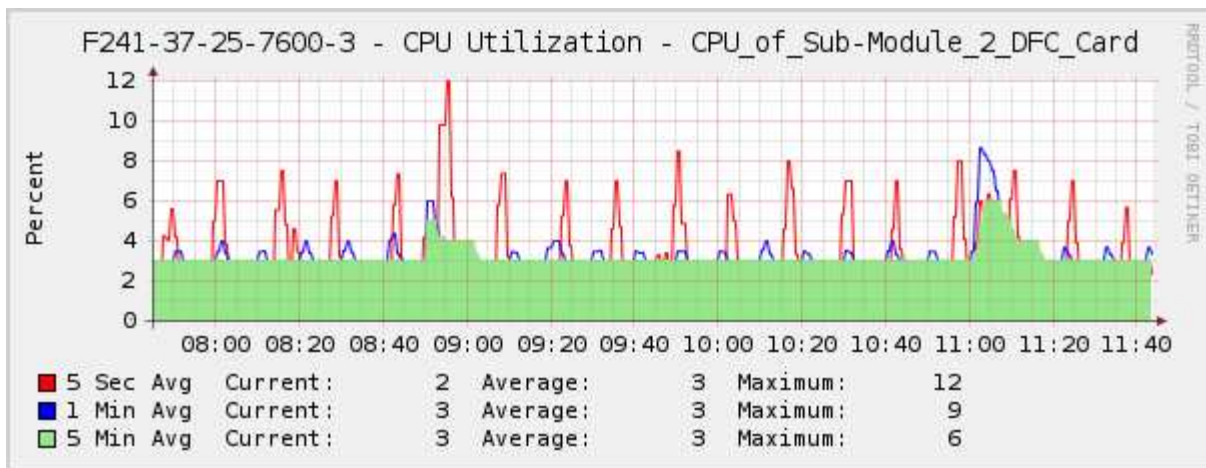
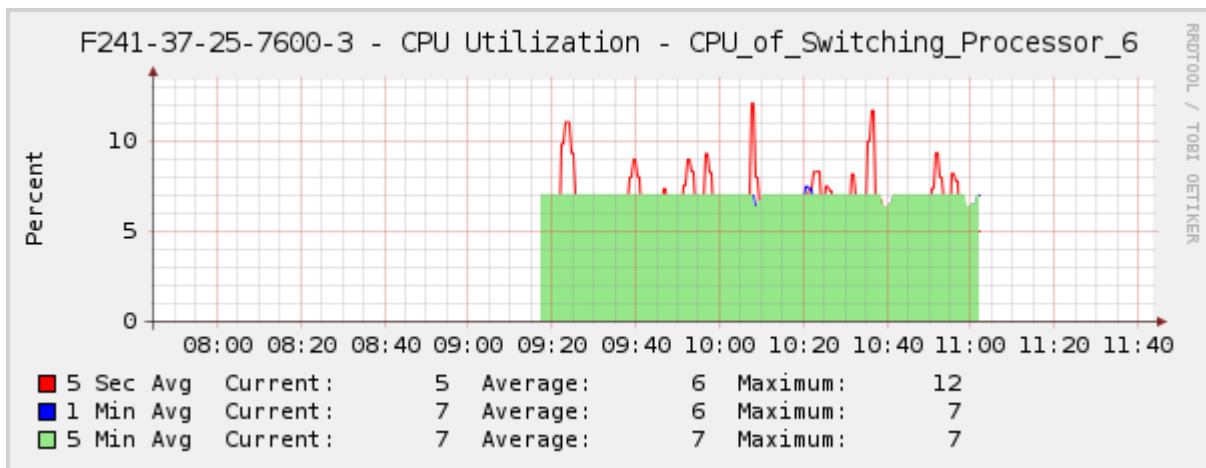
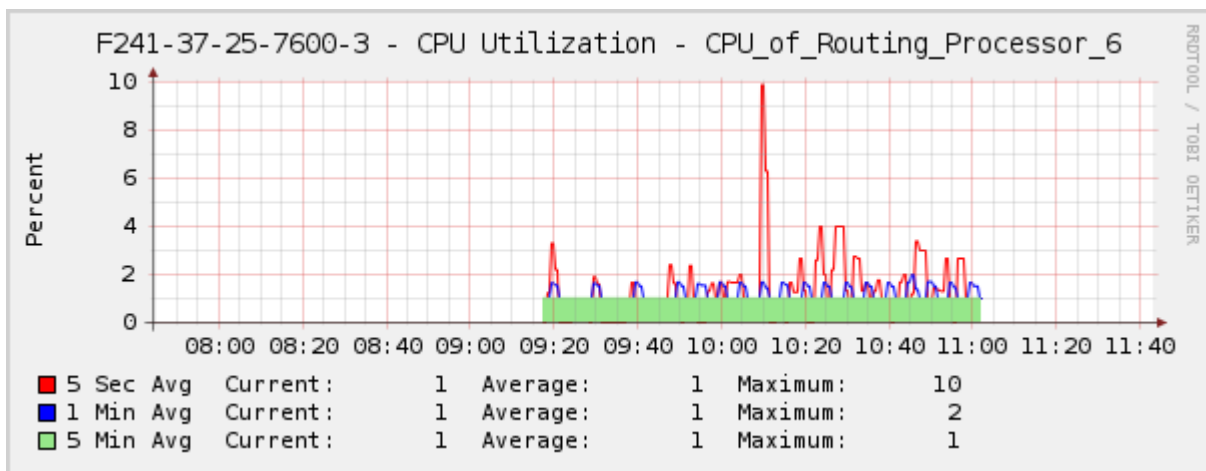
! Refresh Create Graphs page; slot 6 is removed; slot 5 is present
! Notice that the CPU index of the linecards changed again

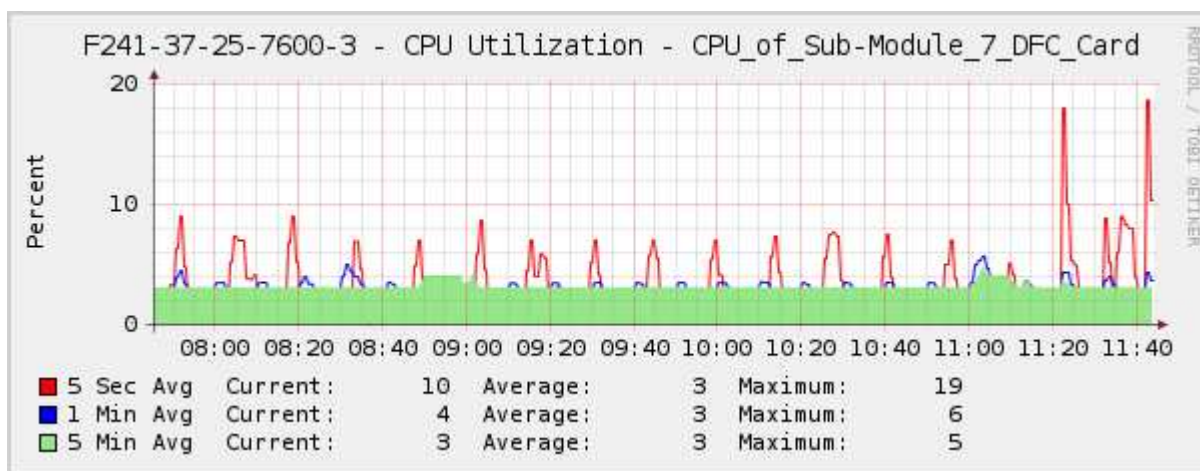
Data Query [Cisco - CPU Utilization]

CPU Name	CPU Index	Physical Index
CPU_of_Routing_Processor_5	1	2017
CPU_of_Sub-Module_2_DFC_Card	2	1007
CPU_of_Sub-Module_7_DFC_Card	4	4008
CPU_of_Switching_Processor_5	3	2001

! Let the graphs run for a few more minutes
! The php script works as expected







! If Cacti were to be left as is, the graphs would automatically track any failover changes
! One downside, though, is that there will be log messages for the standby CPU

! Log messages every minute when log setting is medium

```
06/04/2008 12:05:34 PM - CMDPHP: Poller[0] Host[27] DS[457] CMD: /usr/bin/php -q
/usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" get cpuOneMin
CPU_of_Routing_Processor_6, output: U
06/04/2008 12:05:34 PM - CMDPHP: Poller[0] Host[27] DS[457] WARNING: Result from CMD not valid. Partial
Result:
06/04/2008 12:05:33 PM - CMDPHP: Poller[0] Host[27] DS[457] CMD: /usr/bin/php -q
/usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" get cpuFiveMin
CPU_of_Routing_Processor_6, output: U
06/04/2008 12:05:33 PM - CMDPHP: Poller[0] Host[27] DS[457] WARNING: Result from CMD not valid. Partial
Result:
06/04/2008 12:05:33 PM - CMDPHP: Poller[0] Host[27] DS[457] CMD: /usr/bin/php -q
/usr/share/cacti/site/scripts/cisco_cpu_util.php 13.10.253.11 public 2 161 500 "" "" get cpuFiveSec
CPU_of_Routing_Processor_6, output: U
06/04/2008 12:05:33 PM - CMDPHP: Poller[0] Host[27] DS[457] WARNING: Result from CMD not valid. Partial
Result:
```

! Log messages every minute when log setting is low

```
06/04/2008 12:11:31 PM - CMDPHP: Poller[0] Host[27] DS[457] WARNING: Result from CMD not valid. Partial
Result:
06/04/2008 12:11:30 PM - CMDPHP: Poller[0] Host[27] DS[457] WARNING: Result from CMD not valid. Partial
Result:
06/04/2008 12:11:29 PM - CMDPHP: Poller[0] Host[27] DS[457] WARNING: Result from CMD not valid. Partial
Result:
```