Comparing the Old and New MP1B SMF116 Report

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Background:

The print programs for WebSphere MQ SupportPac MP1B was rewritten for WMQ version 7.1 and published in 2013. The new print program substantially changes the appearance of the information produced for the individual tasks. This document was created to aid those readers familiar with the output from the MQ116S print program in finding the same information in the TASK output from the MQSMF.

Generally available code samples were used to generate the SMF116 class 3 data used for this comparison. Individual transactions were selected to highlight specific differences in the data location within the reports.

Sample – CICS transaction with internal latching reported

In this simple the CICS transaction QPU2, a sample publication transaction that can be found here:
http://www-01.ibm.com/support/docview.wss?uid=tss1prs4852

The sample uses two queues and one topic. The listings from MQ116S and MQCSMF are included in text files, named SMF116S_QPU2TX_SAMPLE.txt and MQCSMF_TASK_QPU2TX_SAMPLE.txt respectively.

The CICS transaction gets control information from the SMFEVAL.QPU2.CONTROL.QUEUE, publishes the number of messages to the topic specified in the control message, and writes status information to the SMFEVAL.QPU2.STATUS.QUEUE.

Task Identification:

The task identification area from the MQ116S report:

```
z/OS:MPX1  MQ QMGR:QML3  Time: 2013168 06:21:15.30  Jobname:CTSTOR01  Userid:STCRACF
           ====> New task record found     <==========
 == Thread type.............> CICS
 == Connection name.........> CTSTOR01
 == Operator ID.............> STCRACF
 == User ID.................> CICSUSER
 == Channel name............>
 == Chl connection..........>
 == Correlator ID...........>     …┼ÍçQPU2
 == Correlator ID.....(HEX)> 15197548D8D7E4F20057090C
 == Context token...........>
 == Context token.....(HEX)> 00000000000000000000000000000000
 == NID.....................> CTSTOR01ôfËR¶øÂ{
 == NID.............(HEX)> C3E3E2E3D6D9F0F1CB8673D9B67062C0
 == Accounting token.......>
 == Accounting token..(HEX)> 00000000000000000000000000000000000000000000000000
```

```
== UOW identifier.........>                    ôfËR¶Í
== UOW identifier....(HEX)> 4040404040404040404040404040404040CB8673D9B6750001
== Task token : 17-06-2013 10:21:10.44,  5A01F978,  5A073AE0
== Interval   : START 17-06-2013 10:21:10.44
== Interval   : END   17-06-2013 10:21:15.30
```

Task identification area from MQSMF TASK output:

```
8 MPX1,QML3,2013/06/17,06:21:15,VRM:710,
8 QML3 CICS CTSTOR01 opid:STCRACF  userid:CICSUSER Tran:QPU2 task:0057090c
8 Start time Jun 17 06:20:46 2013 Started this interval
8 Interval   Jun 17 06:20:46 2013 - Jun 17 06:20:51 2013 : 4.856374 seconds
8  == SRB CPU time used    0.017487 Seconds
```

Information	Field Name	Structure & DSECT	Data from Sample	Location MQ116S report	Location MQSMF report
z/OS Image	SM116SID	WTAS CSQDQWAS	MPX1	z/OS label	First field the report task number (the '8')
Queue Manager	SM116SSI	WTAS CSQDQWAS	QML3	MQ QMGR label	Follow the z/OS image name
Date	SM116DTE	WTAS CSQDQWAS	2013168 or 2013/06/17	the Time label, in Julian format	the queue manager name in YYYY/MM/DD format
Time	SM116TME	WTAS CSQDQWAS	06:21:15.30 or 06:21:15	the date	the date
VRM - version	WTASVER		710	N/A	the VRM label
Jobname	WTIDCCN	WTID CSQDWTID	CTSTOR01	the label	Second line the thread type (CICS)
Thread type	WTIDATYP	WTID CSQDWTID	CICS	the label	Second line the queue manager name (QML3 in the sample)
Connection Name	WTIDCCN	WTID CSQDWTID	CTSTOR01	the label	Same as jobname?
Operator ID	WTIDOPID	WTID CSQDWTID	STCRACF	the label	Second line, the label
User ID	WTIDTRAN	WTID CSQDWTID	CICSUSER	the label	Second line, the label

Correlator ID (transaction ID and task ID)	WTIDCORI	WTID CSQDWTID	QPU2 & x'0057090C'	the label	On the second line, the CICS transaction is the Tran label and the task identifier follows the task label.
UOW identifier	WTIDUOWI	WTID CSQDWTID	hex values	label	Not given in MQSMF output
Task token	WTIDCTXT	WTID CSQDWTID	Date/time and hex values	Follows label	Not printed in MQSMF output
Interval	WTASINTE (end) & WTASINTS (start)	WTAS CSQDQWAS	Data and times given	Follows labels – time adjusted	The actual interval time is calculated in this report
SRB CPU time	WTASCTSR	WTAS CSQDQWAS	'.017487'	In 'Additional Task information' (see below)	Line 5, follows the label

Additional Task Information:

The additional task information area from the MQ116S report:

```
== Number of queue blocks for this task          3
 == Other reqs : Count           1,  Avg elapsed         24,  Avg CPU          9
 == Latch      : Max number         30,  Max wait          60 mics
  > Latch 30,  Total wait          60 mics, Waits           3, Name ASMSAGT |IFCTRACE|DDFDTM
  > Address of latch for longest wait: 0000000010D49180
 == Total CPU time under SRB:    0.017487
 == Pages      : New             1,  Old          7
WTASVER 5
```

The additional task information area from MQSMF TASK output:

```
8 Other reqs : Count                 1
8 Other reqs : Avg elapsed time     24 uS
8 Other reqs : Avg CPU               9 uS
8 Other reqs : Total ET              0.000024 Seconds
8 Other reqs : Total CPU             0.000009 Seconds
8 > Latch 30, Total wait         60 uS, Waits          3, Name ASMSAGT |IFCTRACE|DDFDTM
8 Commit count                       0
8 Commit avg elapsed time            0 uS
8 Commit avg CPU time                0 uS
8 Pages old                          7
8 Pages new                          1
```

Information	Field Name	Structure & DSECT	Data from Sample	Location MQ116S report	Location MQSMF report
Number of queues used	WTASWQCT	WTAS CSQDQWAS	3	number of queue blocks label	N/A
Non-queue ‘other’					

statistics					
Number of 'other' calls	WTASOTN	WTAS CSQDQWAS	1	Other reqs : Count	Other reqs : Count
Average elapsed time for other calls	WTASOTET/WTASOTN	WTAS CSQDQWAS	24 microseconds	Avg elapsed	Other reqs : Avg elapsed time
Average CPU time for other calls	WTASOTCT/WTASOTN	WTAS CSQDQWAS	9 microseconds	Avg CPU	Other reqs : Avg CPU
Latch Information					
Latch number identifier for the latch that had the longest total elapsed time for the task	WTASMLWN	WTAS CSQDQWAS	30	Max number	N/A – check, if there are >1 Latch type reported does this show un in new report
Maximum latch wait time	WTASMLW	WTAS CSQDQWAS	60	Max wait	N/A
Address of the longest wait – used by IBM service	WTASLOWN	WTAS CSQDQWAS	0000000010D49180	: Address of latch for longest wait	N/A
Individual Latch records					
Latch number identifier	WTASMLWN	WTAS CSQDQWAS	30	Latch	Latch
Latch total wait time	WTASMLW	WTAS CSQDQWAS	60	Total wait	Total wait
Latch Name	Supplied by the print program	WTAS CSQDQWAS	ASMSAGT |IFCTRACE|DDFDTM	Name	Name

Total CPU time under SRB	WTASCTSR	WTAS CSQDQWAS	'.017487'	Total CPU time under SRB	Line 5, follows the label
Commit Information					
Number of commits issued	WTASCMN	WTAS CSQDQWAS	0	Not shown because of 0 value	Commit count
Average elapsed time for the commit(s)	WTASCMET/ WTASCMN	WTAS CSQDQWAS	0	Not shown because of 0 value	Commit avg elapsed time
Average CPU time for the commit(s)	WTASCMCT/ WTASCMN	WTAS CSQDQWAS	0	Not shown because of 0 value	Commit avg CPU time
Pages					
New Pages	WTASGPN	WTAS CSQDQWAS	1	Pages : New	Pages new
Old Pages	WTASGPO	WTAS CSQDQWAS	7	Old	Pages old (precedes the New pages in this report)
Task Block Version – meaningless for current versions	WTASVER	WTAS CSQDQWAS	5	WTASVER	N/A

Status Queue Information:

The first queue in the detailed identification area from both reports is the status queue, the last one used by the transaction. The MQ116S report shows the queue information as follows:

```
  Open name SMFEVAL.QPU2.STATUS.QUEUE                        Object type:Local Queue
  Base name SMFEVAL.QPU2.STATUS.QUEUE                        Base type  :Queue
  Queue indexed by NONE
  First opened 17-06-2013 10:21:15.30
  Last closed  19-11-2020 04:18:50.44
  Page set ID             0,  Buffer pool          0
  Current opens           0,  Total requests          3
  Generated messages :          0
  Persistent messages: GETs          0,  PUTs           0,  PUT1s          0
  Put to waiting getter: PUT          1,  PUT1           0
  PUTs: Valid         1,  Max size       513,  Min size       513,  Total bytes    513
  -MQ call-          N         ET         CT       Susp       LOGW       PSET Epages   skip expire
   Open   :          1         21         21          0
   Close  :          1          2          2          0
   Put    :          1         19         18          0          0
 Maximum depth encountered          0
```

The status queue display of the detailed information area from MQSMF TASK output:

```
          8 Queue type:Qlocal                          SMFEVAL.QPU2.STATUS.QUEUE
          8 Queue indexed by NONE                      SMFEVAL.QPU2.STATUS.QUEUE
          8 First Opened    Jun 17 06:20:51 2013       SMFEVAL.QPU2.STATUS.QUEUE
          8 Last Closed     Nov 19 00:18:26 2020       SMFEVAL.QPU2.STATUS.QUEUE
          8 Page set ID                         0      SMFEVAL.QPU2.STATUS.QUEUE
          8 Buffer pool                         0      SMFEVAL.QPU2.STATUS.QUEUE
          8 Current opens                       0      SMFEVAL.QPU2.STATUS.QUEUE
          8 Total requests                      3      SMFEVAL.QPU2.STATUS.QUEUE
          8 Open Count                          1      SMFEVAL.QPU2.STATUS.QUEUE
          8 Open Avg elapsed time            21 uS     SMFEVAL.QPU2.STATUS.QUEUE
          8 Open Avg CPU time                21 uS     SMFEVAL.QPU2.STATUS.QUEUE
          8 Close count                         1      SMFEVAL.QPU2.STATUS.QUEUE
```

```
8 Close avg elapsed time             2 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Close avg CPU time                 2 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Put count                          1       SMFEVAL.QPU2.STATUS.QUEUE
8 Put avg elapsed time              19 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Put avg CPU time                  18 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Put + put1 valid count             1       SMFEVAL.QPU2.STATUS.QUEUE
8 Put waiting getter                 1       SMFEVAL.QPU2.STATUS.QUEUE
8 Put size maximum                 513       SMFEVAL.QPU2.STATUS.QUEUE
8 Put size minimum                 513       SMFEVAL.QPU2.STATUS.QUEUE
8 Put size average                 513       SMFEVAL.QPU2.STATUS.QUEUE
8 Put num not  ersistent             1        SMFEVAL.QPU2.STATUS.QUEUE
8 Curdepth maximum                   0       SMFEVAL.QPU2.STATUS.QUEUE
8 Total Queue elapsed time          43 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Total Queue CPU used              42 uS    SMFEVAL.QPU2.STATUS.QUEUE
```

Status Queue Information Comparison Chart

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Open name used by application	OBJNAME	WQST CSQDWQ	SMFEVAL.QPU2.STATUS.QUEUE	Open Name:	After the queue type information, repeated on every line pertaining to this queue
Object type	QTYPE	WQST CSQDWQ	Local Queue/Qlocal	Object type	Queue type:
Base Object name as resolved by the queue manager	BASENAME	WQST CSQDWQ	SMFEVAL.QPU2.STATUS.QUEUE	As base and open name are the same, there is no 'Base Name' line in the sample report	
Base type	Set by print program		Queue	Base type :	No longer printed
Index on queue	INDXTYPE	WQST	NONE	Queue indexed by	Queue indexed by

		CSQDWQ			
Time queue opened (this is the first time if data is accumulated)	OPENTIME	WQST CSQDWQ	17-06-2013 10:21:15.30	First opened	First opened
Time the queue was closed (this is the last time if data is accumulated)	CLOSTIME	WQST CSQDWQ	19-11-2020 04:18:50.44	Last closed	Last closed
Page Set ID	NPS	WQST CSQDWQ	4	Page set ID	Page set ID
Buffer Pool	NBUFFPOOL	WQST CSQDWQ	2	Buffer pool	Buffer pool
Current Opens	Is this a calculated value??		0	Current opens	Current opens
Total MQ API calls for this queue/Task	TOTAL_USE	WQST CSQDWQ	3	Total requests	Total requests
The number of report, event, trigger, and expiry messages generated	NGEN	WQST CSQDWQ	0	Generated messages	Does not appear in this sample because no messages were generated

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Persistent message activity for queue					
Persistent message MQGET count	GETPMSG	WQST CSQDWQ	0	GETs	Does not appear in the sample because all the messages are nonpersistent
Persistent message MQPUT count	PUTPMSG	WQST CSQDWQ	0	PUTs	Does not appear in the sample because all the messages are nonpersistent
Persistent message MQPUT1 count	PUT1PMSG	WQST CSQDWQ	0	PUT1s	Does not appear in the sample because all the messages are nonpersistent

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Put to Waiting getter counts					
MQPUT to Waiting getter counts	PUTPWG	WQST CSQDWQ	1	Put to waiting getter: PUT	Put waiting getter
MQPUT1 to Waiting getter counts	PUT1PWG	WQST CSQDWQ	0	Folowing PUT1	Does not appear because no MQPUT1s to waiting getter
MQPUTs Summary					
Valid MQPUTs and MQPUT1s	VALIDPUT	WQST CSQDWQ	1	PUTs: Valid	Put + put1 valid count
Maximum MQPUT message size	PUTMAXMS	WQST CSQDWQ	513	Max size	Put size maximum
Minimum MQPUT message size	PUTMINMS	WQST CSQDWQ	513	Min size	Put size minimum
Total number of bytes put	PUTBYTES	WQST CSQDWQ	513	Total bytes	Not printed

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
MQ call Summary Information					
MQOPEN count	OPENN	WQST CSQDWQ	1	Under the 'N' column	Open Count
Open average Elapsed Time (in microseconds	OPENET/OPENN	WQST CSQDWQ	21	Under the 'ET' column	Open Avg elapsed time
Open average CPU Time (in microseconds)	OPENCT/OPENN	WQST CSQDWQ	21	Under the 'CT' column	Open Avg CPU time
Open Suspend Count	OPENSUN	WQST CSQDWQ	0	Under the 'Susp' column	Does not appear in the sample because the MQOPEN was not suspended.
MQCLOSE count	CLOSEN	WQST CSQDWQ	1	Under the 'N' column	Close count
Close average Elapsed Time (in microseconds	CLOSEET/CLOSEN	WQST CSQDWQ	2	Under the 'ET' column	Close Avg elapsed time
MQPUT count	PUTN	WQST CSQDWQ	1	Under the 'N' column	Put count
Put average Elapsed Time (in microseconds	PUTET/PUTN	WQST CSQDWQ	19	Under the 'ET' column	Put Avg elapsed time
Put average CPU Time (in microseconds)	PUTCT/PUTNN	WQST CSQDWQ	18	Under the 'CT' column	Put Avg CPU time

Put Suspend Count	PUTSUSN	WQST CSQDWQ	0	Under the 'Susp' column	Does not appear in the sample because the MQPU was not suspended.
PUT Log Write count ???	PUTJWN	WQST CSQDWQ	0	Under the LOGW column	Does not appear in the sample because all messages were nonpersistent
Maximum depth on the queue during this task	MAXQDPTH	WQST CSQDWQ	0	Maximum depth encountered	Curdepth maximum
Total Queue elapsed time	Calculated Value?		43	N/A	Total Queue elapsed time
Total Queue CPU used	Calculated Value?		42	N A	Total Queue CPU used

Publication Information:

The publication information is next in both reports. The MQ116S report displays the publication information as shown:

```
Open name SMFEVAL.QSU2.TOPIC                                  Object type:Admin topic
  Base name ADMIN.TOPIC.OBJECT                                  Base type  :Topic
  Queue indexed by NONE
  First opened 17-06-2013 10:21:15.26
  Last closed  27-11-2020 22:17:24.68
  Page set ID             0,  Buffer pool          0
  Current opens           0,  Total requests        902
  Generated messages :          0
  Persistent messages: GETs          0,  PUTs           0,  PUT1s          0
  Put to waiting getter: PUT         49,  PUT1           0
  PUTs: Valid       900,  Max size       553,  Min size       553,  Total bytes 497700
  -MQ call topic-    N         ET         CT       Susp     SRBCPU
   Open   :          1         63         40         22         13
   Close  :          1          7          6          0          0
   Put    :        900         34          3         31         19
   Number of messages published 50
  Maximum depth encountered          0
```

The status queue display of the publication detailed information area from MQSMF TASK output:

```
          8 Open name                                SMFEVAL.QSU2.TOPIC
          8 Base name                                ADMIN.TOPIC.OBJECT
          8 Queue type:Unknown                       ADMIN.TOPIC.OBJECT
          8 Queue indexed by NONE                    ADMIN.TOPIC.OBJECT
          8 First Opened    Jun 17 06:20:51 2013     ADMIN.TOPIC.OBJECT
          8 Last Closed     Nov 27 18:17:00 2020     ADMIN.TOPIC.OBJECT
          8 Page set ID                      0       ADMIN.TOPIC.OBJECT
          8 Buffer pool                      0       ADMIN.TOPIC.OBJECT
          8 Current opens                    0       ADMIN.TOPIC.OBJECT
          8 Total requests                 902       ADMIN.TOPIC.OBJECT
          8 Open Count                       1       ADMIN.TOPIC.OBJECT
          8 Open Avg elapsed time           63 uS    ADMIN.TOPIC.OBJECT
          8 Open Avg CPU time               40 uS    ADMIN.TOPIC.OBJECT
```

```
8 Open avg topic srb time           13 uS    ADMIN.TOPIC.OBJECT
8 Close count                        1       ADMIN.TOPIC.OBJECT
8 Close avg elapsed time             7 uS    ADMIN.TOPIC.OBJECT
8 Close avg CPU time                 6 uS    ADMIN.TOPIC.OBJECT
8 Put count                        900       ADMIN.TOPIC.OBJECT
8 Put avg elapsed time              34 uS    ADMIN.TOPIC.OBJECT
8 Put avg CPU time                   3 uS    ADMIN.TOPIC.OBJECT
8 Put suspended time                31 uS    ADMIN.TOPIC.OBJECT
8 Put + put1 valid count           900       ADMIN.TOPIC.OBJECT
8 Put waiting getter                49       ADMIN.TOPIC.OBJECT
8 Put topic srb CPU time            19 uS    ADMIN.TOPIC.OBJECT
8 Put size maximum                 553       ADMIN.TOPIC.OBJECT
8 Put size minimum                 553       ADMIN.TOPIC.OBJECT
8 Put size average                 553       ADMIN.TOPIC.OBJECT
8 Put num not peristent            900       ADMIN.TOPIC.OBJECT
8 Published msgs                    50       ADMIN.TOPIC.OBJECT
8 Curdepth maximum                   0       ADMIN.TOPIC.OBJECT
8 Total Queue elapsed time       30976 uS    ADMIN.TOPIC.OBJECT
8 Total Queue CPU used            3460 uS    ADMIN.TOPIC.OBJECT
```


Topic Publication Information Comparison Chart

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Open name used by application	OBJNAME	WQST CSQDWQ	SMFEVAL.QSU2.TOPIC	Open Name:	No label, appears on most
Object type	QTYPE	WQST CSQDWQ	Admin topic/Unknown	Object type	Queue type:
Base Object name as resolved by the queue manager	BASENAME	WQST CSQDWQ	ADMIN.TOPIC.OBJECT	Base Name	Base Name, repeated on every line pertaining to this topic
Base type	Set by print program	WQST CSQDWQ	Topic	Base Type	No longer printed
Index on queue	INDXTYPE	WQST CSQDWQ	None/Unknown	Queue indexed by	Queue indexed by
Time Topic opened (this is the first time if data is accumulated)	OPENTIME	WQST CSQDWQ	17-06-2013 10:21:15.30	First opened	First opened
Time the Topic was closed (this is the last time if data is accumulated)	CLOSTIME	WQST CSQDWQ	19-11-2020 04:18:50.44	Last closed	Last closed

Page Set ID	NPS - this is meaningless for topics	WQST CSQDWQ	0	Page set ID	Page set ID
Buffer Pool	NBUFFPOOL - this is meaningless for topics	WQST CSQDWQ	0	Buffer pool	Buffer pool
Current Opens	Is this calculated?	WQST CSQDWQ	0	Current opens	Current opens
Total MQ API calls for this queue/Task	TOTAL_USE	WQST CSQDWQ	902	Total requests	Total requests
The number of report, event, trigger, and expiry messages generated	NGEN	WQST CSQDWQ	0	Generated messages	Does not appear in this sample because no messages were generated
Persistent message activity for queue					
Persistent message MQGET count	GETPMSG	WQST CSQDWQ	0	GETs	Does not appear in the sample because all the messages are nonpersistent
Persistent message MQPUT count	PUTPMSG	WQST CSQDWQ	0	PUTs	Does not appear in the sample because all the messages are nonpersistent

Persistent message MQPUT1 count	PUT1PMSG	WQST CSQDWQ	0	PUT1s	Does not appear in the sample because all the messages are nonpersistent
Put to Waiting getter counts		WQST CSQDWQ			
MQPUT to Waiting getter counts	PUTPWG	WQST CSQDWQ	49	Put to waiting getter: PUT	Put waiting getter
MQPUT1 to Waiting getter counts	PUT1PWG	WQST CSQDWQ	0	Folowing PUT1	Does not appear because no MQPUT1s to waiting getter
MQPUTs Summary					
Valid MQPUTs and MQPUT1s	VALIDPUT	WQST CSQDWQ	900	PUTs: Valid	Put + put1 valid count
Maximum MQPUT message size	PUTMAXMS	WQST CSQDWQ	553	Max size	Put size maximum
Minimum MQPUT message size	PUTMINMS	WQST CSQDWQ	553	Min size	Put size minimum
Total number of bytes put	PUTBYTES	WQST CSQDWQ	497700	Total bytes	Not printed
Published Messages	PUBLISHEDN	WQST CSQDWQ	50	Number of messages published	Number of messages published

Maximum depth on the queue during this task	MAXQDPTH	WQST CSQDWQ	0	Maximum depth encountered	Curdepth maximum
Total Queue elapsed time	Calculated Value?		30976	N/A	Total Queue elapsed time
Total Queue CPU used	Calculated Value?		3460	N A	Total Queue CPU used

Control Queue Information:

The final queue in the detailed identification area from both reports is the control queue, the queue that initiates the transactions. The MQ116S report shows the queue information as follows:

```
Open name SMFEVAL.QPU2.CONTROL.QUEUE                        Object type:Local Queue
  Base name SMFEVAL.QPU2.CONTROL.QUEUE                        Base type  :Queue
  Queue indexed by NONE
  First opened 17-06-2013 10:21:15.26
  Last closed  19-11-2020 04:18:50.44
  Page set ID             4,  Buffer pool          3
  Current opens           0,  Total requests          3
  Generated messages :          0
  Persistent messages: GETs          0,  PUTs          0,  PUT1s          0
  Put to waiting getter: PUT          0,  PUT1          0
  GETs: Valid         1,  Max size        80,  Min size        80,  Total bytes      80
  GETs: Dest-S        0,  Dest-G         1,  Brow-S         0,  Brow-G         0, Su cessful destructive
1
  Time on queue : Max    0.000313,  Min    0.000313, Avg    0.000313
  -MQ call-          N         ET         CT       Susp       LOGW       PSET Epages   skip expire
   Open   :          1         16         16          0
   Close  :          1          5          5          0
   Get    :          1         24         24          0          0          0      0      0      0
  Maximum depth encountered          0
```

The control queue display of the detailed information area from MQSMF TASK output:

```
8 Open name                                SMFEVAL.QPU2.CONTROL.QUEUE
8 Queue type:QLocal                        SMFEVAL.QPU2.CONTROL.QUEUE
8 Queue indexed by NONE                    SMFEVAL.QPU2.CONTROL.QUEUE
8 First Opened    Jun 17 06:20:51 2013     SMFEVAL.QPU2.CONTROL.QUEUE
8 Last Closed     Nov 19 00:18:26 2020     SMFEVAL.QPU2.CONTROL.QUEUE
8 Page set ID                         4    SMFEVAL.QPU2.CONTROL.QUEUE
8 Buffer pool                         3    SMFEVAL.QPU2.CONTROL.QUEUE
8 Current opens                       0    SMFEVAL.QPU2.CONTROL.QUEUE
8 Total requests                      3    SMFEVAL.QPU2.CONTROL.QUEUE
8 Open Count                          1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Open Avg elapsed time              16 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Open Avg CPU time                  16 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Close count                         1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Close avg elapsed time              5 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Close avg CPU time                  5 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get count                           1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Get avg elapsed time               24 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get avg CPU time                   24 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get TOQ average                   313 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get TOQ maximum                   313 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get TOQ minimum                   313 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get valid count                     1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Get size maximum                   80 bytes SMFEVAL.QPU2.CONTROL.QUEUE
8 Get size minimum                   80 bytes SMFEVAL.QPU2.CONTROL.QUEUE
8 Get size average                   80 bytes SMFEVAL.QPU2.CONTROL.QUEUE
8 Get Dest-Next                       1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Get not persistent count            1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Curdepth maximum                    0    SMFEVAL.QPU2.CONTROL.QUEUE
8 Total Queue elapsed time           46 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Total Queue CPU used               46 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Grand total CPU time             3557 uS
8 Grand Elapsed time              31089 uS
```

→

Control Queue Information Comparison Chart

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Open name used by application	OBJNAME	WQST CSQDWQ	SMFEVAL.QPU2.CONTROL.QUEUE	Open Name	On line with queue type
Object type	QTYPE	WQST CSQDWQ	Local Queue/Qlocal	Object type	Queue type
Base Object name as resolved by the queue manager	BASENAME	WQST CSQDWQ	SMFEVAL.QPU2.CONTROL.QUEUE	Base Name	Base Name, repeated on every line pertaining to this ququq
Base type	Set by print program	WQST CSQDWQ	Queue	Base Type	No longer printed
Index on queue	INDXTYPE	WQST CSQDWQ	None/Unknown	Queue indexed by	Queue indexed by
Time Topic opened (this is the first time if data is accumulated)	OPENTIME	WQST CSQDWQ	17-06-2013 10:21:15.30	First opened	First opened
Time the Topic was closed (this is the last time if data is accumulated)	CLOSTIME	WQST CSQDWQ	19-11-2020 04:18:50.44	Last closed	Last closed

Page Set ID	NPS	WQST CSQDWQ	4	Page set ID	Page set ID
Buffer Pool	NBUFFPOOL	WQST CSQDWQ	3	Buffer pool	Buffer pool
Current Opens	Is this calculated?	WQST CSQDWQ	0	Current opens	Current opens
Total MQ API calls for this queue/Task	TOTAL_USE	WQST CSQDWQ	3	Total requests	Total requests
The number of report, event, trigger, and expiry messages generated	NGEN	WQST CSQDWQ	0	Generated messages	Does not appear in this sample because no messages were generated
Persistent message activity for queue		WQST CSQDWQ			
Persistent message MQGET count	GETPMSG	WQST CSQDWQ	0	GETs	Does not appear in the sample because all the messages are nonpersistent
Persistent message MQPUT count	PUTPMSG	WQST CSQDWQ	0	PUTs	Does not appear in the sample because all the messages are

					nonpersistent
Persistent message MQPUT1 count	PUT1PMSG	WQST CSQDWQ	0	PUT1s	Does not appear in the sample because all the messages are nonpersistent
Put to Waiting getter counts		WQST CSQDWQ			
MQPUT to Waiting getter counts	PUTPWG	WQST CSQDWQ	0	Put to waiting getter PUT	Does not appear in the sample because there are no MQPUTs to this queue
MQPUT1 to Waiting getter counts	PUT1PWG	WQST CSQDWQ	0	Folowing PUT1	Does not appear in the sample because there are no MQPUT1s to this queue
MQGETs Summary		WQST CSQDWQ			
Valid MQGETs	VALIDGET	WQST CSQDWQ	1	GETs Valid	Get count
Maximum MQGET message size	GETMAXMS	WQST CSQDWQ	80	Max size	Put size maximum

Minimum MQGET message size	GETMINMS	WQST CSQDWQ	80	Min size	Get size minimum
Total number of bytes retrieved	GETBYTES	WQST CSQDWQ	80	Total bytes	Not printed
Destructive Gets - for a specific message	GETS	WQST CSQDWQ	0	GETs Dest-S	Does not appear in the sample because there are no MQGETs for a specific message
Destructive Gets - for the next message	GETA	WQST CSQDWQ	1	Dest-G	Get Dest-Next
Non-Destructive Gets - for a specific message	GETBRWS	WQST CSQDWQ	0	Brow-S	Does not appear in the sample because there are no non-destructive MQGETs for a specific message
Non-Destructive Gets - for any message	GETBRWA	WQST CSQDWQ	0	Brow-G	Does not appear in the sample because there are no non-destructive MQGETs for any message

Successful Destructive MQGETs		WQST CSQDWQ		1	Sucessful destructive	
Queue Latency		WQST CSQDWQ				
Maximum time on queue	MAXLATNT	WQST CSQDWQ	0.000313/313		Time on queue Max	Get TOQ maximum
Minimum time on queue	MINLATNT	WQST CSQDWQ	0.000313/313		Min	Get TOQ minimum
Average Time on queue	Calculated from TOTLATNT/Valid gets?		0.000313/313		Avg	Get TOQ average
Queue Open		WQST CSQDWQ				
Number of MQOPENs	OPENN	WQST CSQDWQ		1	Under the 'N' Column	Open Count
Open average elapsed time	Calculated from OPENET/OPENN?			16	Under the 'ET' Column	Open Avg elapsed time
Open average CPU time	Calculated from OPENCT/OPENN?			16	Under the 'CT' Column	Open Avg CPU time
Queue Close		WQST CSQDWQ				
Number of MQCLOSEs	CLOSEN	WQST CSQDWQ		1	Under the 'N' Column	Close Count
Close average	Calculated from CLOSEET/CLOSEN?			5	Under the 'ET' Column	Close Avg elapsed time

elapsed time					
Close average CPU time	Calculated from CLOSECT/CLOSEN?		5	Under the 'CT' Column	Close Avg CPU time
MQGET from queue					
Number of MQGETs	GETN	WQST CSQDWQ	1	Under the 'N' Column	Get Count
MQGET average elapsed time	Calculated from GETET/GETN?	WQST CSQDWQ	24	Under the 'ET' Column	Get Avg elapsed time
MQGET average CPU time	Calculated from GETCT/GETN?	WQST CSQDWQ	24	Under the 'CT' Column	Get Avg CPU time
Maximum depth on the queue during this task	MAXQDPTH	WQST CSQDWQ	0	Maximum depth encountered	Curdepth maximum
Get not persistent count	Calculated from GETN – GETPMSG		1	N/A	Get not persistent count
Total Queue elapsed time	Calculated Value		46	N/A	Total Queue elapsed time
Total Queue CPU used	Calculated Value		46	N/A	Total Queue CPU used
Grand total CPU time	Calculated Value		3557	N/A	Grand total CPU time

Grand Elapsed time	Calculated Value?		31089	N/A	Grand total elapsed time

Many thanks !

Many thanks to :

Colin Paice
Tony Sharkey
Mitch Johnson
Chris Griego

Any errors or omissions are mine and mine alone. I do have plans to expand this document as I have time.

Lyn

Comparing the Old and New MP1B SMF116 Report

By Lyn Elkins – elkinsc@us.ibm.com

Background:

The print programs for WebSphere MQ SupportPac MP1B was rewritten for WMQ version 7.1 and published in 2013. The new print program substantially changes the appearance of the information produced for the individual tasks. This document was created to aid those readers familiar with the output from the MQ116S print program in finding the same information in the TASK output from the MQSMF.

Generally available code samples were used to generate the SMF116 class 3 data used for this comparison. Individual transactions were selected to highlight specific differences in the data location within the reports.

Sample – CICS transaction with internal latching reported

In this simple the CICS transaction QPU2, a sample publication transaction that can be found here:
http://www-01.ibm.com/support/docview.wss?uid=tss1prs4852

The sample uses two queues and one topic. The listings from MQ116S and MQCSMF are included in text files, named SMF116S_QPU2TX_SAMPLE.txt and MQCSMF_TASK_QPU2TX_SAMPLE.txt respectively.

The CICS transaction gets control information from the SMFEVAL.QPU2.CONTROL.QUEUE, publishes the number of messages to the topic specified in the control message, and writes status information to the SMFEVAL.QPU2.STATUS.QUEUE.

Task Identification:

The task identification area from the MQ116S report:

```
z/OS:MPX1  MQ QMGR:QML3  Time: 2013168 06:21:15.30  Jobname:CTSTOR01  Userid:STCRACF
           ====> New task record found     <==========
 == Thread type.............> CICS
 == Connection name.........> CTSTOR01
 == Operator ID.............> STCRACF
 == User ID.................> CICSUSER
 == Channel name............>
 == Chl connection..........>
 == Correlator ID...........>     …┼ÍçQPU2
 == Correlator ID.....(HEX)> 15197548D8D7E4F20057090C
 == Context token...........>
 == Context token.....(HEX)> 00000000000000000000000000000000
 == NID.....................> CTSTOR01ôfËR¶øÂ{
 == NID.............(HEX)> C3E3E2E3D6D9F0F1CB8673D9B67062C0
 == Accounting token.......>
 == Accounting token..(HEX)> 00000000000000000000000000000000000000000000000000
```

```
== UOW identifier.........>                    ôfËR¶Í
== UOW identifier....(HEX)> 4040404040404040404040404040404040CB8673D9B6750001
== Task token : 17-06-2013 10:21:10.44,  5A01F978,  5A073AE0
== Interval   : START 17-06-2013 10:21:10.44
== Interval   : END   17-06-2013 10:21:15.30
```

Task identification area from MQSMF TASK output:

```
8 MPX1,QML3,2013/06/17,06:21:15,VRM:710,
8 QML3 CICS CTSTOR01 opid:STCRACF  userid:CICSUSER Tran:QPU2 task:0057090c
8 Start time Jun 17 06:20:46 2013 Started this interval
8 Interval   Jun 17 06:20:46 2013 - Jun 17 06:20:51 2013 : 4.856374 seconds
8  == SRB CPU time used    0.017487 Seconds
```

Information	Field Name	Structure & DSECT	Data from Sample	Location MQ116S report	Location MQSMF report
z/OS Image	SM116SID	WTAS CSQDQWAS	MPX1	z/OS label	First field the report task number (the '8')
Queue Manager	SM116SSI	WTAS CSQDQWAS	QML3	MQ QMGR label	Follow the z/OS image name
Date	SM116DTE	WTAS CSQDQWAS	2013168 or 2013/06/17	the Time label, in Julian format	the queue manager name in YYYY/MM/DD format
Time	SM116TME	WTAS CSQDQWAS	06:21:15.30 or 06:21:15	the date	the date
VRM - version	WTASVER		710	N/A	the VRM label
Jobname	WTIDCCN	WTID CSQDWTID	CTSTOR01	the label	Second line the thread type (CICS)
Thread type	WTIDATYP	WTID CSQDWTID	CICS	the label	Second line the queue manager name (QML3 in the sample)
Connection Name	WTIDCCN	WTID CSQDWTID	CTSTOR01	the label	Same as jobname?
Operator ID	WTIDOPID	WTID CSQDWTID	STCRACF	the label	Second line, the label
User ID	WTIDTRAN	WTID CSQDWTID	CICSUSER	the label	Second line, the label

Correlator ID (transaction ID and task ID)	WTIDCORI	WTID CSQDWTID	QPU2 & x'0057090C'	the label	On the second line, the CICS transaction is the Tran label and the task identifier follows the task label.
UOW identifier	WTIDUOWI	WTID CSQDWTID	hex values	label	Not given in MQSMF output
Task token	WTIDCTXT	WTID CSQDWTID	Date/time and hex values	Follows label	Not printed in MQSMF output
Interval	WTASINTE (end) & WTASINTS (start)	WTAS CSQDQWAS	Data and times given	Follows labels – time adjusted	The actual interval time is calculated in this report
SRB CPU time	WTASCTSR	WTAS CSQDQWAS	'.017487'	In 'Additional Task information' (see below)	Line 5, follows the label

Additional Task Information:

The additional task information area from the MQ116S report:

```
== Number of queue blocks for this task          3
 == Other reqs : Count           1,  Avg elapsed         24,  Avg CPU          9
 == Latch      : Max number         30,  Max wait          60 mics
  > Latch 30,  Total wait          60 mics, Waits           3, Name ASMSAGT |IFCTRACE|DDFDTM
  > Address of latch for longest wait: 0000000010D49180
 == Total CPU time under SRB:    0.017487
 == Pages      : New             1,  Old          7
WTASVER 5
```

The additional task information area from MQSMF TASK output:

```
8 Other reqs : Count                 1
8 Other reqs : Avg elapsed time     24 uS
8 Other reqs : Avg CPU               9 uS
8 Other reqs : Total ET              0.000024 Seconds
8 Other reqs : Total CPU             0.000009 Seconds
8 > Latch 30, Total wait         60 uS, Waits          3, Name ASMSAGT |IFCTRACE|DDFDTM
8 Commit count                       0
8 Commit avg elapsed time            0 uS
8 Commit avg CPU time                0 uS
8 Pages old                          7
8 Pages new                          1
```

Information	Field Name	Structure & DSECT	Data from Sample	Location MQ116S report	Location MQSMF report
Number of queues used	WTASWQCT	WTAS CSQDQWAS	3	number of queue blocks label	N/A
Non-queue ‘other’					

statistics					
Number of 'other' calls	WTASOTN	WTAS CSQDQWAS	1	Other reqs : Count	Other reqs : Count
Average elapsed time for other calls	WTASOTET/WTASOTN	WTAS CSQDQWAS	24 microseconds	Avg elapsed	Other reqs : Avg elapsed time
Average CPU time for other calls	WTASOTCT/WTASOTN	WTAS CSQDQWAS	9 microseconds	Avg CPU	Other reqs : Avg CPU
Latch Information					
Latch number identifier for the latch that had the longest total elapsed time for the task	WTASMLWN	WTAS CSQDQWAS	30	Max number	N/A – check, if there are >1 Latch type reported does this show un in new report
Maximum latch wait time	WTASMLW	WTAS CSQDQWAS	60	Max wait	N/A
Address of the longest wait – used by IBM service	WTASLOWN	WTAS CSQDQWAS	0000000010D49180	: Address of latch for longest wait	N/A
Individual Latch records					
Latch number identifier	WTASMLWN	WTAS CSQDQWAS	30	Latch	Latch
Latch total wait time	WTASMLW	WTAS CSQDQWAS	60	Total wait	Total wait
Latch Name	Supplied by the print program	WTAS CSQDQWAS	ASMSAGT |IFCTRACE|DDFDTM	Name	Name

Total CPU time under SRB	WTASCTSR	WTAS CSQDQWAS	'.017487'	Total CPU time under SRB	Line 5, follows the label
Commit Information					
Number of commits issued	WTASCMN	WTAS CSQDQWAS	0	Not shown because of 0 value	Commit count
Average elapsed time for the commit(s)	WTASCMET/ WTASCMN	WTAS CSQDQWAS	0	Not shown because of 0 value	Commit avg elapsed time
Average CPU time for the commit(s)	WTASCMCT/ WTASCMN	WTAS CSQDQWAS	0	Not shown because of 0 value	Commit avg CPU time
Pages					
New Pages	WTASGPN	WTAS CSQDQWAS	1	Pages : New	Pages new
Old Pages	WTASGPO	WTAS CSQDQWAS	7	Old	Pages old (precedes the New pages in this report)
Task Block Version – meaningless for current versions	WTASVER	WTAS CSQDQWAS	5	WTASVER	N/A

Status Queue Information:

The first queue in the detailed identification area from both reports is the status queue, the last one used by the transaction. The MQ116S report shows the queue information as follows:

```
  Open name SMFEVAL.QPU2.STATUS.QUEUE                        Object type:Local Queue
  Base name SMFEVAL.QPU2.STATUS.QUEUE                        Base type  :Queue
  Queue indexed by NONE
  First opened 17-06-2013 10:21:15.30
  Last closed  19-11-2020 04:18:50.44
  Page set ID             0,  Buffer pool          0
  Current opens           0,  Total requests          3
  Generated messages :          0
  Persistent messages: GETs          0,  PUTs           0,  PUT1s          0
  Put to waiting getter: PUT          1,  PUT1           0
  PUTs: Valid         1,  Max size       513,  Min size       513,  Total bytes    513
  -MQ call-          N         ET         CT       Susp       LOGW       PSET Epages   skip expire
   Open   :          1         21         21          0
   Close  :          1          2          2          0
   Put    :          1         19         18          0          0
 Maximum depth encountered          0
```

The status queue display of the detailed information area from MQSMF TASK output:

```
          8 Queue type:Qlocal                          SMFEVAL.QPU2.STATUS.QUEUE
          8 Queue indexed by NONE                      SMFEVAL.QPU2.STATUS.QUEUE
          8 First Opened    Jun 17 06:20:51 2013       SMFEVAL.QPU2.STATUS.QUEUE
          8 Last Closed     Nov 19 00:18:26 2020       SMFEVAL.QPU2.STATUS.QUEUE
          8 Page set ID                         0      SMFEVAL.QPU2.STATUS.QUEUE
          8 Buffer pool                         0      SMFEVAL.QPU2.STATUS.QUEUE
          8 Current opens                       0      SMFEVAL.QPU2.STATUS.QUEUE
          8 Total requests                      3      SMFEVAL.QPU2.STATUS.QUEUE
          8 Open Count                          1      SMFEVAL.QPU2.STATUS.QUEUE
          8 Open Avg elapsed time            21 uS     SMFEVAL.QPU2.STATUS.QUEUE
          8 Open Avg CPU time                21 uS     SMFEVAL.QPU2.STATUS.QUEUE
          8 Close count                         1      SMFEVAL.QPU2.STATUS.QUEUE
```

```
8 Close avg elapsed time             2 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Close avg CPU time                 2 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Put count                          1       SMFEVAL.QPU2.STATUS.QUEUE
8 Put avg elapsed time              19 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Put avg CPU time                  18 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Put + put1 valid count             1       SMFEVAL.QPU2.STATUS.QUEUE
8 Put waiting getter                 1       SMFEVAL.QPU2.STATUS.QUEUE
8 Put size maximum                 513       SMFEVAL.QPU2.STATUS.QUEUE
8 Put size minimum                 513       SMFEVAL.QPU2.STATUS.QUEUE
8 Put size average                 513       SMFEVAL.QPU2.STATUS.QUEUE
8 Put num not  ersistent             1        SMFEVAL.QPU2.STATUS.QUEUE
8 Curdepth maximum                   0       SMFEVAL.QPU2.STATUS.QUEUE
8 Total Queue elapsed time          43 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Total Queue CPU used              42 uS    SMFEVAL.QPU2.STATUS.QUEUE
```

Status Queue Information Comparison Chart

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Open name used by application	OBJNAME	WQST CSQDWQ	SMFEVAL.QPU2.STATUS.QUEUE	Open Name:	After the queue type information, repeated on every line pertaining to this queue
Object type	QTYPE	WQST CSQDWQ	Local Queue/Qlocal	Object type	Queue type:
Base Object name as resolved by the queue manager	BASENAME	WQST CSQDWQ	SMFEVAL.QPU2.STATUS.QUEUE	As base and open name are the same, there is no 'Base Name' line in the sample report	
Base type	Set by print program		Queue	Base type :	No longer printed
Index on queue	INDXTYPE	WQST	NONE	Queue indexed by	Queue indexed by

		CSQDWQ			
Time queue opened (this is the first time if data is accumulated)	OPENTIME	WQST CSQDWQ	17-06-2013 10:21:15.30	First opened	First opened
Time the queue was closed (this is the last time if data is accumulated)	CLOSTIME	WQST CSQDWQ	19-11-2020 04:18:50.44	Last closed	Last closed
Page Set ID	NPS	WQST CSQDWQ	4	Page set ID	Page set ID
Buffer Pool	NBUFFPOOL	WQST CSQDWQ	2	Buffer pool	Buffer pool
Current Opens	Is this a calculated value??		0	Current opens	Current opens
Total MQ API calls for this queue/Task	TOTAL_USE	WQST CSQDWQ	3	Total requests	Total requests
The number of report, event, trigger, and expiry messages generated	NGEN	WQST CSQDWQ	0	Generated messages	Does not appear in this sample because no messages were generated

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Persistent message activity for queue					
Persistent message MQGET count	GETPMSG	WQST CSQDWQ	0	GETs	Does not appear in the sample because all the messages are nonpersistent
Persistent message MQPUT count	PUTPMSG	WQST CSQDWQ	0	PUTs	Does not appear in the sample because all the messages are nonpersistent
Persistent message MQPUT1 count	PUT1PMSG	WQST CSQDWQ	0	PUT1s	Does not appear in the sample because all the messages are nonpersistent

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Put to Waiting getter counts					
MQPUT to Waiting getter counts	PUTPWG	WQST CSQDWQ	1	Put to waiting getter: PUT	Put waiting getter
MQPUT1 to Waiting getter counts	PUT1PWG	WQST CSQDWQ	0	Folowing PUT1	Does not appear because no MQPUT1s to waiting getter
MQPUTs Summary					
Valid MQPUTs and MQPUT1s	VALIDPUT	WQST CSQDWQ	1	PUTs: Valid	Put + put1 valid count
Maximum MQPUT message size	PUTMAXMS	WQST CSQDWQ	513	Max size	Put size maximum
Minimum MQPUT message size	PUTMINMS	WQST CSQDWQ	513	Min size	Put size minimum
Total number of bytes put	PUTBYTES	WQST CSQDWQ	513	Total bytes	Not printed

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
MQ call Summary Information					
MQOPEN count	OPENN	WQST CSQDWQ	1	Under the 'N' column	Open Count
Open average Elapsed Time (in microseconds	OPENET/OPENN	WQST CSQDWQ	21	Under the 'ET' column	Open Avg elapsed time
Open average CPU Time (in microseconds)	OPENCT/OPENN	WQST CSQDWQ	21	Under the 'CT' column	Open Avg CPU time
Open Suspend Count	OPENSUN	WQST CSQDWQ	0	Under the 'Susp' column	Does not appear in the sample because the MQOPEN was not suspended.
MQCLOSE count	CLOSEN	WQST CSQDWQ	1	Under the 'N' column	Close count
Close average Elapsed Time (in microseconds	CLOSEET/CLOSEN	WQST CSQDWQ	2	Under the 'ET' column	Close Avg elapsed time
MQPUT count	PUTN	WQST CSQDWQ	1	Under the 'N' column	Put count
Put average Elapsed Time (in microseconds	PUTET/PUTN	WQST CSQDWQ	19	Under the 'ET' column	Put Avg elapsed time
Put average CPU Time (in microseconds)	PUTCT/PUTNN	WQST CSQDWQ	18	Under the 'CT' column	Put Avg CPU time

Put Suspend Count	PUTSUSN	WQST CSQDWQ	0	Under the 'Susp' column	Does not appear in the sample because the MQPU was not suspended.
PUT Log Write count ???	PUTJWN	WQST CSQDWQ	0	Under the LOGW column	Does not appear in the sample because all messages were nonpersistent
Maximum depth on the queue during this task	MAXQDPTH	WQST CSQDWQ	0	Maximum depth encountered	Curdepth maximum
Total Queue elapsed time	Calculated Value?		43	N/A	Total Queue elapsed time
Total Queue CPU used	Calculated Value?		42	N A	Total Queue CPU used

Publication Information:

The publication information is next in both reports. The MQ116S report displays the publication information as shown:

```
Open name SMFEVAL.QSU2.TOPIC                                  Object type:Admin topic
  Base name ADMIN.TOPIC.OBJECT                                  Base type  :Topic
  Queue indexed by NONE
  First opened 17-06-2013 10:21:15.26
  Last closed  27-11-2020 22:17:24.68
  Page set ID             0,  Buffer pool          0
  Current opens           0,  Total requests        902
  Generated messages :          0
  Persistent messages: GETs          0,  PUTs           0,  PUT1s          0
  Put to waiting getter: PUT         49,  PUT1           0
  PUTs: Valid       900,  Max size       553,  Min size       553,  Total bytes 497700
  -MQ call topic-    N         ET         CT       Susp     SRBCPU
   Open   :          1         63         40         22         13
   Close  :          1          7          6          0          0
   Put    :        900         34          3         31         19
   Number of messages published 50
  Maximum depth encountered          0
```

The status queue display of the publication detailed information area from MQSMF TASK output:

```
          8 Open name                                SMFEVAL.QSU2.TOPIC
          8 Base name                                ADMIN.TOPIC.OBJECT
          8 Queue type:Unknown                       ADMIN.TOPIC.OBJECT
          8 Queue indexed by NONE                    ADMIN.TOPIC.OBJECT
          8 First Opened    Jun 17 06:20:51 2013     ADMIN.TOPIC.OBJECT
          8 Last Closed     Nov 27 18:17:00 2020     ADMIN.TOPIC.OBJECT
          8 Page set ID                      0       ADMIN.TOPIC.OBJECT
          8 Buffer pool                      0       ADMIN.TOPIC.OBJECT
          8 Current opens                    0       ADMIN.TOPIC.OBJECT
          8 Total requests                 902       ADMIN.TOPIC.OBJECT
          8 Open Count                       1       ADMIN.TOPIC.OBJECT
          8 Open Avg elapsed time           63 uS    ADMIN.TOPIC.OBJECT
          8 Open Avg CPU time               40 uS    ADMIN.TOPIC.OBJECT
```

```
8 Open avg topic srb time           13 uS    ADMIN.TOPIC.OBJECT
8 Close count                        1       ADMIN.TOPIC.OBJECT
8 Close avg elapsed time             7 uS    ADMIN.TOPIC.OBJECT
8 Close avg CPU time                 6 uS    ADMIN.TOPIC.OBJECT
8 Put count                        900       ADMIN.TOPIC.OBJECT
8 Put avg elapsed time              34 uS    ADMIN.TOPIC.OBJECT
8 Put avg CPU time                   3 uS    ADMIN.TOPIC.OBJECT
8 Put suspended time                31 uS    ADMIN.TOPIC.OBJECT
8 Put + put1 valid count           900       ADMIN.TOPIC.OBJECT
8 Put waiting getter                49       ADMIN.TOPIC.OBJECT
8 Put topic srb CPU time            19 uS    ADMIN.TOPIC.OBJECT
8 Put size maximum                 553       ADMIN.TOPIC.OBJECT
8 Put size minimum                 553       ADMIN.TOPIC.OBJECT
8 Put size average                 553       ADMIN.TOPIC.OBJECT
8 Put num not peristent            900       ADMIN.TOPIC.OBJECT
8 Published msgs                    50       ADMIN.TOPIC.OBJECT
8 Curdepth maximum                   0       ADMIN.TOPIC.OBJECT
8 Total Queue elapsed time       30976 uS    ADMIN.TOPIC.OBJECT
8 Total Queue CPU used            3460 uS    ADMIN.TOPIC.OBJECT
```


Topic Publication Information Comparison Chart

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Open name used by application	OBJNAME	WQST CSQDWQ	SMFEVAL.QSU2.TOPIC	Open Name:	No label, appears on most
Object type	QTYPE	WQST CSQDWQ	Admin topic/Unknown	Object type	Queue type:
Base Object name as resolved by the queue manager	BASENAME	WQST CSQDWQ	ADMIN.TOPIC.OBJECT	Base Name	Base Name, repeated on every line pertaining to this topic
Base type	Set by print program	WQST CSQDWQ	Topic	Base Type	No longer printed
Index on queue	INDXTYPE	WQST CSQDWQ	None/Unknown	Queue indexed by	Queue indexed by
Time Topic opened (this is the first time if data is accumulated)	OPENTIME	WQST CSQDWQ	17-06-2013 10:21:15.30	First opened	First opened
Time the Topic was closed (this is the last time if data is accumulated)	CLOSTIME	WQST CSQDWQ	19-11-2020 04:18:50.44	Last closed	Last closed

Page Set ID	NPS - this is meaningless for topics	WQST CSQDWQ	0	Page set ID	Page set ID
Buffer Pool	NBUFFPOOL - this is meaningless for topics	WQST CSQDWQ	0	Buffer pool	Buffer pool
Current Opens	Is this calculated?	WQST CSQDWQ	0	Current opens	Current opens
Total MQ API calls for this queue/Task	TOTAL_USE	WQST CSQDWQ	902	Total requests	Total requests
The number of report, event, trigger, and expiry messages generated	NGEN	WQST CSQDWQ	0	Generated messages	Does not appear in this sample because no messages were generated
Persistent message activity for queue					
Persistent message MQGET count	GETPMSG	WQST CSQDWQ	0	GETs	Does not appear in the sample because all the messages are nonpersistent
Persistent message MQPUT count	PUTPMSG	WQST CSQDWQ	0	PUTs	Does not appear in the sample because all the messages are nonpersistent

Persistent message MQPUT1 count	PUT1PMSG	WQST CSQDWQ	0	PUT1s	Does not appear in the sample because all the messages are nonpersistent
Put to Waiting getter counts		WQST CSQDWQ			
MQPUT to Waiting getter counts	PUTPWG	WQST CSQDWQ	49	Put to waiting getter: PUT	Put waiting getter
MQPUT1 to Waiting getter counts	PUT1PWG	WQST CSQDWQ	0	Folowing PUT1	Does not appear because no MQPUT1s to waiting getter
MQPUTs Summary					
Valid MQPUTs and MQPUT1s	VALIDPUT	WQST CSQDWQ	900	PUTs: Valid	Put + put1 valid count
Maximum MQPUT message size	PUTMAXMS	WQST CSQDWQ	553	Max size	Put size maximum
Minimum MQPUT message size	PUTMINMS	WQST CSQDWQ	553	Min size	Put size minimum
Total number of bytes put	PUTBYTES	WQST CSQDWQ	497700	Total bytes	Not printed
Published Messages	PUBLISHEDN	WQST CSQDWQ	50	Number of messages published	Number of messages published

Maximum depth on the queue during this task	MAXQDPTH	WQST CSQDWQ	0	Maximum depth encountered	Curdepth maximum
Total Queue elapsed time	Calculated Value?		30976	N/A	Total Queue elapsed time
Total Queue CPU used	Calculated Value?		3460	N A	Total Queue CPU used

Control Queue Information:

The final queue in the detailed identification area from both reports is the control queue, the queue that initiates the transactions. The MQ116S report shows the queue information as follows:

```
Open name SMFEVAL.QPU2.CONTROL.QUEUE                        Object type:Local Queue
  Base name SMFEVAL.QPU2.CONTROL.QUEUE                        Base type  :Queue
  Queue indexed by NONE
  First opened 17-06-2013 10:21:15.26
  Last closed  19-11-2020 04:18:50.44
  Page set ID             4,  Buffer pool          3
  Current opens           0,  Total requests          3
  Generated messages :          0
  Persistent messages: GETs          0,  PUTs          0,  PUT1s          0
  Put to waiting getter: PUT          0,  PUT1          0
  GETs: Valid         1,  Max size        80,  Min size        80,  Total bytes      80
  GETs: Dest-S        0,  Dest-G         1,  Brow-S         0,  Brow-G         0, Su cessful destructive
1
  Time on queue : Max    0.000313,  Min    0.000313, Avg    0.000313
  -MQ call-          N         ET         CT       Susp       LOGW       PSET Epages   skip expire
   Open   :          1         16         16          0
   Close  :          1          5          5          0
   Get    :          1         24         24          0          0          0      0      0      0
  Maximum depth encountered          0
```

The control queue display of the detailed information area from MQSMF TASK output:

```
8 Open name                                SMFEVAL.QPU2.CONTROL.QUEUE
8 Queue type:QLocal                        SMFEVAL.QPU2.CONTROL.QUEUE
8 Queue indexed by NONE                    SMFEVAL.QPU2.CONTROL.QUEUE
8 First Opened    Jun 17 06:20:51 2013     SMFEVAL.QPU2.CONTROL.QUEUE
8 Last Closed     Nov 19 00:18:26 2020     SMFEVAL.QPU2.CONTROL.QUEUE
8 Page set ID                         4    SMFEVAL.QPU2.CONTROL.QUEUE
8 Buffer pool                         3    SMFEVAL.QPU2.CONTROL.QUEUE
8 Current opens                       0    SMFEVAL.QPU2.CONTROL.QUEUE
8 Total requests                      3    SMFEVAL.QPU2.CONTROL.QUEUE
8 Open Count                          1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Open Avg elapsed time              16 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Open Avg CPU time                  16 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Close count                         1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Close avg elapsed time              5 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Close avg CPU time                  5 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get count                           1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Get avg elapsed time               24 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get avg CPU time                   24 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get TOQ average                   313 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get TOQ maximum                   313 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get TOQ minimum                   313 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get valid count                     1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Get size maximum                   80 bytes SMFEVAL.QPU2.CONTROL.QUEUE
8 Get size minimum                   80 bytes SMFEVAL.QPU2.CONTROL.QUEUE
8 Get size average                   80 bytes SMFEVAL.QPU2.CONTROL.QUEUE
8 Get Dest-Next                       1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Get not persistent count            1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Curdepth maximum                    0    SMFEVAL.QPU2.CONTROL.QUEUE
8 Total Queue elapsed time           46 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Total Queue CPU used               46 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Grand total CPU time             3557 uS
8 Grand Elapsed time              31089 uS
```

→

Control Queue Information Comparison Chart

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Open name used by application	OBJNAME	WQST CSQDWQ	SMFEVAL.QPU2.CONTROL.QUEUE	Open Name	On line with queue type
Object type	QTYPE	WQST CSQDWQ	Local Queue/Qlocal	Object type	Queue type
Base Object name as resolved by the queue manager	BASENAME	WQST CSQDWQ	SMFEVAL.QPU2.CONTROL.QUEUE	Base Name	Base Name, repeated on every line pertaining to this ququq
Base type	Set by print program	WQST CSQDWQ	Queue	Base Type	No longer printed
Index on queue	INDXTYPE	WQST CSQDWQ	None/Unknown	Queue indexed by	Queue indexed by
Time Topic opened (this is the first time if data is accumulated)	OPENTIME	WQST CSQDWQ	17-06-2013 10:21:15.30	First opened	First opened
Time the Topic was closed (this is the last time if data is accumulated)	CLOSTIME	WQST CSQDWQ	19-11-2020 04:18:50.44	Last closed	Last closed

Page Set ID	NPS	WQST CSQDWQ	4	Page set ID	Page set ID
Buffer Pool	NBUFFPOOL	WQST CSQDWQ	3	Buffer pool	Buffer pool
Current Opens	Is this calculated?	WQST CSQDWQ	0	Current opens	Current opens
Total MQ API calls for this queue/Task	TOTAL_USE	WQST CSQDWQ	3	Total requests	Total requests
The number of report, event, trigger, and expiry messages generated	NGEN	WQST CSQDWQ	0	Generated messages	Does not appear in this sample because no messages were generated
Persistent message activity for queue		WQST CSQDWQ			
Persistent message MQGET count	GETPMSG	WQST CSQDWQ	0	GETs	Does not appear in the sample because all the messages are nonpersistent
Persistent message MQPUT count	PUTPMSG	WQST CSQDWQ	0	PUTs	Does not appear in the sample because all the messages are

					nonpersistent
Persistent message MQPUT1 count	PUT1PMSG	WQST CSQDWQ	0	PUT1s	Does not appear in the sample because all the messages are nonpersistent
Put to Waiting getter counts		WQST CSQDWQ			
MQPUT to Waiting getter counts	PUTPWG	WQST CSQDWQ	0	Put to waiting getter PUT	Does not appear in the sample because there are no MQPUTs to this queue
MQPUT1 to Waiting getter counts	PUT1PWG	WQST CSQDWQ	0	Folowing PUT1	Does not appear in the sample because there are no MQPUT1s to this queue
MQGETs Summary		WQST CSQDWQ			
Valid MQGETs	VALIDGET	WQST CSQDWQ	1	GETs Valid	Get count
Maximum MQGET message size	GETMAXMS	WQST CSQDWQ	80	Max size	Put size maximum

Minimum MQGET message size	GETMINMS	WQST CSQDWQ	80	Min size	Get size minimum
Total number of bytes retrieved	GETBYTES	WQST CSQDWQ	80	Total bytes	Not printed
Destructive Gets - for a specific message	GETS	WQST CSQDWQ	0	GETs Dest-S	Does not appear in the sample because there are no MQGETs for a specific message
Destructive Gets - for the next message	GETA	WQST CSQDWQ	1	Dest-G	Get Dest-Next
Non-Destructive Gets - for a specific message	GETBRWS	WQST CSQDWQ	0	Brow-S	Does not appear in the sample because there are no non-destructive MQGETs for a specific message
Non-Destructive Gets - for any message	GETBRWA	WQST CSQDWQ	0	Brow-G	Does not appear in the sample because there are no non-destructive MQGETs for any message

Successful Destructive MQGETs		WQST CSQDWQ		1	Sucessful destructive	
Queue Latency		WQST CSQDWQ				
Maximum time on queue	MAXLATNT	WQST CSQDWQ	0.000313/313		Time on queue Max	Get TOQ maximum
Minimum time on queue	MINLATNT	WQST CSQDWQ	0.000313/313		Min	Get TOQ minimum
Average Time on queue	Calculated from TOTLATNT/Valid gets?		0.000313/313		Avg	Get TOQ average
Queue Open		WQST CSQDWQ				
Number of MQOPENs	OPENN	WQST CSQDWQ		1	Under the 'N' Column	Open Count
Open average elapsed time	Calculated from OPENET/OPENN?			16	Under the 'ET' Column	Open Avg elapsed time
Open average CPU time	Calculated from OPENCT/OPENN?			16	Under the 'CT' Column	Open Avg CPU time
Queue Close		WQST CSQDWQ				
Number of MQCLOSEs	CLOSEN	WQST CSQDWQ		1	Under the 'N' Column	Close Count
Close average	Calculated from CLOSEET/CLOSEN?			5	Under the 'ET' Column	Close Avg elapsed time

elapsed time					
Close average CPU time	Calculated from CLOSECT/CLOSEN?		5	Under the 'CT' Column	Close Avg CPU time
MQGET from queue					
Number of MQGETs	GETN	WQST CSQDWQ	1	Under the 'N' Column	Get Count
MQGET average elapsed time	Calculated from GETET/GETN?	WQST CSQDWQ	24	Under the 'ET' Column	Get Avg elapsed time
MQGET average CPU time	Calculated from GETCT/GETN?	WQST CSQDWQ	24	Under the 'CT' Column	Get Avg CPU time
Maximum depth on the queue during this task	MAXQDPTH	WQST CSQDWQ	0	Maximum depth encountered	Curdepth maximum
Get not persistent count	Calculated from GETN – GETPMSG		1	N/A	Get not persistent count
Total Queue elapsed time	Calculated Value		46	N/A	Total Queue elapsed time
Total Queue CPU used	Calculated Value		46	N/A	Total Queue CPU used
Grand total CPU time	Calculated Value		3557	N/A	Grand total CPU time

Grand Elapsed time	Calculated Value?		31089	N/A	Grand total elapsed time

Many thanks !

Many thanks to :

Colin Paice
Tony Sharkey
Mitch Johnson
Chris Griego

Any errors or omissions are mine and mine alone. I do have plans to expand this document as I have time.

Lyn

Comparing the Old and New MP1B SMF116 Report

By Lyn Elkins – elkinsc@us.ibm.com

Background:

The print programs for WebSphere MQ SupportPac MP1B was rewritten for WMQ version 7.1 and published in 2013. The new print program substantially changes the appearance of the information produced for the individual tasks. This document was created to aid those readers familiar with the output from the MQ116S print program in finding the same information in the TASK output from the MQSMF.

Generally available code samples were used to generate the SMF116 class 3 data used for this comparison. Individual transactions were selected to highlight specific differences in the data location within the reports.

Sample – CICS transaction with internal latching reported

In this simple the CICS transaction QPU2, a sample publication transaction that can be found here:
http://www-01.ibm.com/support/docview.wss?uid=tss1prs4852

The sample uses two queues and one topic. The listings from MQ116S and MQCSMF are included in text files, named SMF116S_QPU2TX_SAMPLE.txt and MQCSMF_TASK_QPU2TX_SAMPLE.txt respectively.

The CICS transaction gets control information from the SMFEVAL.QPU2.CONTROL.QUEUE, publishes the number of messages to the topic specified in the control message, and writes status information to the SMFEVAL.QPU2.STATUS.QUEUE.

Task Identification:

The task identification area from the MQ116S report:

```
z/OS:MPX1  MQ QMGR:QML3  Time: 2013168 06:21:15.30  Jobname:CTSTOR01  Userid:STCRACF
           ====> New task record found     <==========
 == Thread type.............> CICS
 == Connection name.........> CTSTOR01
 == Operator ID.............> STCRACF
 == User ID.................> CICSUSER
 == Channel name............>
 == Chl connection..........>
 == Correlator ID...........>     …┼ÍçQPU2
 == Correlator ID.....(HEX)> 15197548D8D7E4F20057090C
 == Context token...........>
 == Context token.....(HEX)> 00000000000000000000000000000000
 == NID.....................> CTSTOR01ôfËR¶øÂ{
 == NID.............(HEX)> C3E3E2E3D6D9F0F1CB8673D9B67062C0
 == Accounting token.......>
 == Accounting token..(HEX)> 00000000000000000000000000000000000000000000000000
```

```
== UOW identifier.........>                    ôfËR¶Í
== UOW identifier....(HEX)> 4040404040404040404040404040404040CB8673D9B6750001
== Task token : 17-06-2013 10:21:10.44,  5A01F978,  5A073AE0
== Interval   : START 17-06-2013 10:21:10.44
== Interval   : END   17-06-2013 10:21:15.30
```

Task identification area from MQSMF TASK output:

```
8 MPX1,QML3,2013/06/17,06:21:15,VRM:710,
8 QML3 CICS CTSTOR01 opid:STCRACF  userid:CICSUSER Tran:QPU2 task:0057090c
8 Start time Jun 17 06:20:46 2013 Started this interval
8 Interval   Jun 17 06:20:46 2013 - Jun 17 06:20:51 2013 : 4.856374 seconds
8  == SRB CPU time used    0.017487 Seconds
```

Information	Field Name	Structure & DSECT	Data from Sample	Location MQ116S report	Location MQSMF report
z/OS Image	SM116SID	WTAS CSQDQWAS	MPX1	z/OS label	First field the report task number (the '8')
Queue Manager	SM116SSI	WTAS CSQDQWAS	QML3	MQ QMGR label	Follow the z/OS image name
Date	SM116DTE	WTAS CSQDQWAS	2013168 or 2013/06/17	the Time label, in Julian format	the queue manager name in YYYY/MM/DD format
Time	SM116TME	WTAS CSQDQWAS	06:21:15.30 or 06:21:15	the date	the date
VRM - version	WTASVER		710	N/A	the VRM label
Jobname	WTIDCCN	WTID CSQDWTID	CTSTOR01	the label	Second line the thread type (CICS)
Thread type	WTIDATYP	WTID CSQDWTID	CICS	the label	Second line the queue manager name (QML3 in the sample)
Connection Name	WTIDCCN	WTID CSQDWTID	CTSTOR01	the label	Same as jobname?
Operator ID	WTIDOPID	WTID CSQDWTID	STCRACF	the label	Second line, the label
User ID	WTIDTRAN	WTID CSQDWTID	CICSUSER	the label	Second line, the label

Correlator ID (transaction ID and task ID)	WTIDCORI	WTID CSQDWTID	QPU2 & x'0057090C'	the label	On the second line, the CICS transaction is the Tran label and the task identifier follows the task label.
UOW identifier	WTIDUOWI	WTID CSQDWTID	hex values	label	Not given in MQSMF output
Task token	WTIDCTXT	WTID CSQDWTID	Date/time and hex values	Follows label	Not printed in MQSMF output
Interval	WTASINTE (end) & WTASINTS (start)	WTAS CSQDQWAS	Data and times given	Follows labels – time adjusted	The actual interval time is calculated in this report
SRB CPU time	WTASCTSR	WTAS CSQDQWAS	'.017487'	In 'Additional Task information' (see below)	Line 5, follows the label

Additional Task Information:

The additional task information area from the MQ116S report:

```
== Number of queue blocks for this task          3
 == Other reqs : Count           1,  Avg elapsed         24,  Avg CPU          9
 == Latch      : Max number         30,  Max wait          60 mics
  > Latch 30,  Total wait          60 mics, Waits           3, Name ASMSAGT |IFCTRACE|DDFDTM
  > Address of latch for longest wait: 0000000010D49180
 == Total CPU time under SRB:    0.017487
 == Pages      : New             1,  Old          7
WTASVER 5
```

The additional task information area from MQSMF TASK output:

```
8 Other reqs : Count                 1
8 Other reqs : Avg elapsed time     24 uS
8 Other reqs : Avg CPU               9 uS
8 Other reqs : Total ET              0.000024 Seconds
8 Other reqs : Total CPU             0.000009 Seconds
8 > Latch 30, Total wait         60 uS, Waits          3, Name ASMSAGT |IFCTRACE|DDFDTM
8 Commit count                       0
8 Commit avg elapsed time            0 uS
8 Commit avg CPU time                0 uS
8 Pages old                          7
8 Pages new                          1
```

Information	Field Name	Structure & DSECT	Data from Sample	Location MQ116S report	Location MQSMF report
Number of queues used	WTASWQCT	WTAS CSQDQWAS	3	number of queue blocks label	N/A
Non-queue ‘other’					

statistics					
Number of 'other' calls	WTASOTN	WTAS CSQDQWAS	1	Other reqs : Count	Other reqs : Count
Average elapsed time for other calls	WTASOTET/WTASOTN	WTAS CSQDQWAS	24 microseconds	Avg elapsed	Other reqs : Avg elapsed time
Average CPU time for other calls	WTASOTCT/WTASOTN	WTAS CSQDQWAS	9 microseconds	Avg CPU	Other reqs : Avg CPU
Latch Information					
Latch number identifier for the latch that had the longest total elapsed time for the task	WTASMLWN	WTAS CSQDQWAS	30	Max number	N/A – check, if there are >1 Latch type reported does this show un in new report
Maximum latch wait time	WTASMLW	WTAS CSQDQWAS	60	Max wait	N/A
Address of the longest wait – used by IBM service	WTASLOWN	WTAS CSQDQWAS	0000000010D49180	: Address of latch for longest wait	N/A
Individual Latch records					
Latch number identifier	WTASMLWN	WTAS CSQDQWAS	30	Latch	Latch
Latch total wait time	WTASMLW	WTAS CSQDQWAS	60	Total wait	Total wait
Latch Name	Supplied by the print program	WTAS CSQDQWAS	ASMSAGT |IFCTRACE|DDFDTM	Name	Name

Total CPU time under SRB	WTASCTSR	WTAS CSQDQWAS	'.017487'	Total CPU time under SRB	Line 5, follows the label
Commit Information					
Number of commits issued	WTASCMN	WTAS CSQDQWAS	0	Not shown because of 0 value	Commit count
Average elapsed time for the commit(s)	WTASCMET/ WTASCMN	WTAS CSQDQWAS	0	Not shown because of 0 value	Commit avg elapsed time
Average CPU time for the commit(s)	WTASCMCT/ WTASCMN	WTAS CSQDQWAS	0	Not shown because of 0 value	Commit avg CPU time
Pages					
New Pages	WTASGPN	WTAS CSQDQWAS	1	Pages : New	Pages new
Old Pages	WTASGPO	WTAS CSQDQWAS	7	Old	Pages old (precedes the New pages in this report)
Task Block Version – meaningless for current versions	WTASVER	WTAS CSQDQWAS	5	WTASVER	N/A

Status Queue Information:

The first queue in the detailed identification area from both reports is the status queue, the last one used by the transaction. The MQ116S report shows the queue information as follows:

```
  Open name SMFEVAL.QPU2.STATUS.QUEUE                        Object type:Local Queue
  Base name SMFEVAL.QPU2.STATUS.QUEUE                        Base type  :Queue
  Queue indexed by NONE
  First opened 17-06-2013 10:21:15.30
  Last closed  19-11-2020 04:18:50.44
  Page set ID             0,  Buffer pool          0
  Current opens           0,  Total requests          3
  Generated messages :          0
  Persistent messages: GETs          0,  PUTs           0,  PUT1s          0
  Put to waiting getter: PUT          1,  PUT1           0
  PUTs: Valid         1,  Max size       513,  Min size       513,  Total bytes    513
  -MQ call-          N         ET         CT       Susp       LOGW       PSET Epages   skip expire
   Open   :          1         21         21          0
   Close  :          1          2          2          0
   Put    :          1         19         18          0          0
 Maximum depth encountered          0
```

The status queue display of the detailed information area from MQSMF TASK output:

```
          8 Queue type:Qlocal                          SMFEVAL.QPU2.STATUS.QUEUE
          8 Queue indexed by NONE                      SMFEVAL.QPU2.STATUS.QUEUE
          8 First Opened    Jun 17 06:20:51 2013       SMFEVAL.QPU2.STATUS.QUEUE
          8 Last Closed     Nov 19 00:18:26 2020       SMFEVAL.QPU2.STATUS.QUEUE
          8 Page set ID                         0      SMFEVAL.QPU2.STATUS.QUEUE
          8 Buffer pool                         0      SMFEVAL.QPU2.STATUS.QUEUE
          8 Current opens                       0      SMFEVAL.QPU2.STATUS.QUEUE
          8 Total requests                      3      SMFEVAL.QPU2.STATUS.QUEUE
          8 Open Count                          1      SMFEVAL.QPU2.STATUS.QUEUE
          8 Open Avg elapsed time            21 uS     SMFEVAL.QPU2.STATUS.QUEUE
          8 Open Avg CPU time                21 uS     SMFEVAL.QPU2.STATUS.QUEUE
          8 Close count                         1      SMFEVAL.QPU2.STATUS.QUEUE
```

```
8 Close avg elapsed time             2 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Close avg CPU time                 2 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Put count                          1       SMFEVAL.QPU2.STATUS.QUEUE
8 Put avg elapsed time              19 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Put avg CPU time                  18 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Put + put1 valid count             1       SMFEVAL.QPU2.STATUS.QUEUE
8 Put waiting getter                 1       SMFEVAL.QPU2.STATUS.QUEUE
8 Put size maximum                 513       SMFEVAL.QPU2.STATUS.QUEUE
8 Put size minimum                 513       SMFEVAL.QPU2.STATUS.QUEUE
8 Put size average                 513       SMFEVAL.QPU2.STATUS.QUEUE
8 Put num not  ersistent             1        SMFEVAL.QPU2.STATUS.QUEUE
8 Curdepth maximum                   0       SMFEVAL.QPU2.STATUS.QUEUE
8 Total Queue elapsed time          43 uS    SMFEVAL.QPU2.STATUS.QUEUE
8 Total Queue CPU used              42 uS    SMFEVAL.QPU2.STATUS.QUEUE
```

Status Queue Information Comparison Chart

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Open name used by application	OBJNAME	WQST CSQDWQ	SMFEVAL.QPU2.STATUS.QUEUE	Open Name:	After the queue type information, repeated on every line pertaining to this queue
Object type	QTYPE	WQST CSQDWQ	Local Queue/Qlocal	Object type	Queue type:
Base Object name as resolved by the queue manager	BASENAME	WQST CSQDWQ	SMFEVAL.QPU2.STATUS.QUEUE	As base and open name are the same, there is no 'Base Name' line in the sample report	
Base type	Set by print program		Queue	Base type :	No longer printed
Index on queue	INDXTYPE	WQST	NONE	Queue indexed by	Queue indexed by

		CSQDWQ			
Time queue opened (this is the first time if data is accumulated)	OPENTIME	WQST CSQDWQ	17-06-2013 10:21:15.30	First opened	First opened
Time the queue was closed (this is the last time if data is accumulated)	CLOSTIME	WQST CSQDWQ	19-11-2020 04:18:50.44	Last closed	Last closed
Page Set ID	NPS	WQST CSQDWQ	4	Page set ID	Page set ID
Buffer Pool	NBUFFPOOL	WQST CSQDWQ	2	Buffer pool	Buffer pool
Current Opens	Is this a calculated value??		0	Current opens	Current opens
Total MQ API calls for this queue/Task	TOTAL_USE	WQST CSQDWQ	3	Total requests	Total requests
The number of report, event, trigger, and expiry messages generated	NGEN	WQST CSQDWQ	0	Generated messages	Does not appear in this sample because no messages were generated

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Persistent message activity for queue					
Persistent message MQGET count	GETPMSG	WQST CSQDWQ	0	GETs	Does not appear in the sample because all the messages are nonpersistent
Persistent message MQPUT count	PUTPMSG	WQST CSQDWQ	0	PUTs	Does not appear in the sample because all the messages are nonpersistent
Persistent message MQPUT1 count	PUT1PMSG	WQST CSQDWQ	0	PUT1s	Does not appear in the sample because all the messages are nonpersistent

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Put to Waiting getter counts					
MQPUT to Waiting getter counts	PUTPWG	WQST CSQDWQ	1	Put to waiting getter: PUT	Put waiting getter
MQPUT1 to Waiting getter counts	PUT1PWG	WQST CSQDWQ	0	Folowing PUT1	Does not appear because no MQPUT1s to waiting getter
MQPUTs Summary					
Valid MQPUTs and MQPUT1s	VALIDPUT	WQST CSQDWQ	1	PUTs: Valid	Put + put1 valid count
Maximum MQPUT message size	PUTMAXMS	WQST CSQDWQ	513	Max size	Put size maximum
Minimum MQPUT message size	PUTMINMS	WQST CSQDWQ	513	Min size	Put size minimum
Total number of bytes put	PUTBYTES	WQST CSQDWQ	513	Total bytes	Not printed

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
MQ call Summary Information					
MQOPEN count	OPENN	WQST CSQDWQ	1	Under the 'N' column	Open Count
Open average Elapsed Time (in microseconds	OPENET/OPENN	WQST CSQDWQ	21	Under the 'ET' column	Open Avg elapsed time
Open average CPU Time (in microseconds)	OPENCT/OPENN	WQST CSQDWQ	21	Under the 'CT' column	Open Avg CPU time
Open Suspend Count	OPENSUN	WQST CSQDWQ	0	Under the 'Susp' column	Does not appear in the sample because the MQOPEN was not suspended.
MQCLOSE count	CLOSEN	WQST CSQDWQ	1	Under the 'N' column	Close count
Close average Elapsed Time (in microseconds	CLOSEET/CLOSEN	WQST CSQDWQ	2	Under the 'ET' column	Close Avg elapsed time
MQPUT count	PUTN	WQST CSQDWQ	1	Under the 'N' column	Put count
Put average Elapsed Time (in microseconds	PUTET/PUTN	WQST CSQDWQ	19	Under the 'ET' column	Put Avg elapsed time
Put average CPU Time (in microseconds)	PUTCT/PUTNN	WQST CSQDWQ	18	Under the 'CT' column	Put Avg CPU time

Put Suspend Count	PUTSUSN	WQST CSQDWQ	0	Under the 'Susp' column	Does not appear in the sample because the MQPU was not suspended.
PUT Log Write count ???	PUTJWN	WQST CSQDWQ	0	Under the LOGW column	Does not appear in the sample because all messages were nonpersistent
Maximum depth on the queue during this task	MAXQDPTH	WQST CSQDWQ	0	Maximum depth encountered	Curdepth maximum
Total Queue elapsed time	Calculated Value?		43	N/A	Total Queue elapsed time
Total Queue CPU used	Calculated Value?		42	N A	Total Queue CPU used

Publication Information:

The publication information is next in both reports. The MQ116S report displays the publication information as shown:

```
Open name SMFEVAL.QSU2.TOPIC                                  Object type:Admin topic
  Base name ADMIN.TOPIC.OBJECT                                  Base type  :Topic
  Queue indexed by NONE
  First opened 17-06-2013 10:21:15.26
  Last closed  27-11-2020 22:17:24.68
  Page set ID             0,  Buffer pool          0
  Current opens           0,  Total requests        902
  Generated messages :          0
  Persistent messages: GETs          0,  PUTs           0,  PUT1s          0
  Put to waiting getter: PUT         49,  PUT1           0
  PUTs: Valid       900,  Max size       553,  Min size       553,  Total bytes 497700
  -MQ call topic-    N         ET         CT       Susp     SRBCPU
   Open   :          1         63         40         22         13
   Close  :          1          7          6          0          0
   Put    :        900         34          3         31         19
   Number of messages published 50
  Maximum depth encountered          0
```

The status queue display of the publication detailed information area from MQSMF TASK output:

```
          8 Open name                                SMFEVAL.QSU2.TOPIC
          8 Base name                                ADMIN.TOPIC.OBJECT
          8 Queue type:Unknown                       ADMIN.TOPIC.OBJECT
          8 Queue indexed by NONE                    ADMIN.TOPIC.OBJECT
          8 First Opened    Jun 17 06:20:51 2013     ADMIN.TOPIC.OBJECT
          8 Last Closed     Nov 27 18:17:00 2020     ADMIN.TOPIC.OBJECT
          8 Page set ID                      0       ADMIN.TOPIC.OBJECT
          8 Buffer pool                      0       ADMIN.TOPIC.OBJECT
          8 Current opens                    0       ADMIN.TOPIC.OBJECT
          8 Total requests                 902       ADMIN.TOPIC.OBJECT
          8 Open Count                       1       ADMIN.TOPIC.OBJECT
          8 Open Avg elapsed time           63 uS    ADMIN.TOPIC.OBJECT
          8 Open Avg CPU time               40 uS    ADMIN.TOPIC.OBJECT
```

```
8 Open avg topic srb time           13 uS    ADMIN.TOPIC.OBJECT
8 Close count                        1       ADMIN.TOPIC.OBJECT
8 Close avg elapsed time             7 uS    ADMIN.TOPIC.OBJECT
8 Close avg CPU time                 6 uS    ADMIN.TOPIC.OBJECT
8 Put count                        900       ADMIN.TOPIC.OBJECT
8 Put avg elapsed time              34 uS    ADMIN.TOPIC.OBJECT
8 Put avg CPU time                   3 uS    ADMIN.TOPIC.OBJECT
8 Put suspended time                31 uS    ADMIN.TOPIC.OBJECT
8 Put + put1 valid count           900       ADMIN.TOPIC.OBJECT
8 Put waiting getter                49       ADMIN.TOPIC.OBJECT
8 Put topic srb CPU time            19 uS    ADMIN.TOPIC.OBJECT
8 Put size maximum                 553       ADMIN.TOPIC.OBJECT
8 Put size minimum                 553       ADMIN.TOPIC.OBJECT
8 Put size average                 553       ADMIN.TOPIC.OBJECT
8 Put num not peristent            900       ADMIN.TOPIC.OBJECT
8 Published msgs                    50       ADMIN.TOPIC.OBJECT
8 Curdepth maximum                   0       ADMIN.TOPIC.OBJECT
8 Total Queue elapsed time       30976 uS    ADMIN.TOPIC.OBJECT
8 Total Queue CPU used            3460 uS    ADMIN.TOPIC.OBJECT
```


Topic Publication Information Comparison Chart

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Open name used by application	OBJNAME	WQST CSQDWQ	SMFEVAL.QSU2.TOPIC	Open Name:	No label, appears on most
Object type	QTYPE	WQST CSQDWQ	Admin topic/Unknown	Object type	Queue type:
Base Object name as resolved by the queue manager	BASENAME	WQST CSQDWQ	ADMIN.TOPIC.OBJECT	Base Name	Base Name, repeated on every line pertaining to this topic
Base type	Set by print program	WQST CSQDWQ	Topic	Base Type	No longer printed
Index on queue	INDXTYPE	WQST CSQDWQ	None/Unknown	Queue indexed by	Queue indexed by
Time Topic opened (this is the first time if data is accumulated)	OPENTIME	WQST CSQDWQ	17-06-2013 10:21:15.30	First opened	First opened
Time the Topic was closed (this is the last time if data is accumulated)	CLOSTIME	WQST CSQDWQ	19-11-2020 04:18:50.44	Last closed	Last closed

Page Set ID	NPS - this is meaningless for topics	WQST CSQDWQ	0	Page set ID	Page set ID
Buffer Pool	NBUFFPOOL - this is meaningless for topics	WQST CSQDWQ	0	Buffer pool	Buffer pool
Current Opens	Is this calculated?	WQST CSQDWQ	0	Current opens	Current opens
Total MQ API calls for this queue/Task	TOTAL_USE	WQST CSQDWQ	902	Total requests	Total requests
The number of report, event, trigger, and expiry messages generated	NGEN	WQST CSQDWQ	0	Generated messages	Does not appear in this sample because no messages were generated
Persistent message activity for queue					
Persistent message MQGET count	GETPMSG	WQST CSQDWQ	0	GETs	Does not appear in the sample because all the messages are nonpersistent
Persistent message MQPUT count	PUTPMSG	WQST CSQDWQ	0	PUTs	Does not appear in the sample because all the messages are nonpersistent

Persistent message MQPUT1 count	PUT1PMSG	WQST CSQDWQ	0	PUT1s	Does not appear in the sample because all the messages are nonpersistent
Put to Waiting getter counts		WQST CSQDWQ			
MQPUT to Waiting getter counts	PUTPWG	WQST CSQDWQ	49	Put to waiting getter: PUT	Put waiting getter
MQPUT1 to Waiting getter counts	PUT1PWG	WQST CSQDWQ	0	Folowing PUT1	Does not appear because no MQPUT1s to waiting getter
MQPUTs Summary					
Valid MQPUTs and MQPUT1s	VALIDPUT	WQST CSQDWQ	900	PUTs: Valid	Put + put1 valid count
Maximum MQPUT message size	PUTMAXMS	WQST CSQDWQ	553	Max size	Put size maximum
Minimum MQPUT message size	PUTMINMS	WQST CSQDWQ	553	Min size	Put size minimum
Total number of bytes put	PUTBYTES	WQST CSQDWQ	497700	Total bytes	Not printed
Published Messages	PUBLISHEDN	WQST CSQDWQ	50	Number of messages published	Number of messages published

Maximum depth on the queue during this task	MAXQDPTH	WQST CSQDWQ	0	Maximum depth encountered	Curdepth maximum
Total Queue elapsed time	Calculated Value?		30976	N/A	Total Queue elapsed time
Total Queue CPU used	Calculated Value?		3460	N A	Total Queue CPU used

Control Queue Information:

The final queue in the detailed identification area from both reports is the control queue, the queue that initiates the transactions. The MQ116S report shows the queue information as follows:

```
Open name SMFEVAL.QPU2.CONTROL.QUEUE                        Object type:Local Queue
  Base name SMFEVAL.QPU2.CONTROL.QUEUE                        Base type  :Queue
  Queue indexed by NONE
  First opened 17-06-2013 10:21:15.26
  Last closed  19-11-2020 04:18:50.44
  Page set ID             4,  Buffer pool          3
  Current opens           0,  Total requests          3
  Generated messages :          0
  Persistent messages: GETs          0,  PUTs          0,  PUT1s          0
  Put to waiting getter: PUT          0,  PUT1          0
  GETs: Valid         1,  Max size        80,  Min size        80,  Total bytes      80
  GETs: Dest-S        0,  Dest-G         1,  Brow-S         0,  Brow-G         0, Su cessful destructive
1
  Time on queue : Max    0.000313,  Min    0.000313, Avg    0.000313
  -MQ call-          N         ET         CT       Susp       LOGW       PSET Epages   skip expire
   Open   :          1         16         16          0
   Close  :          1          5          5          0
   Get    :          1         24         24          0          0          0      0      0      0
  Maximum depth encountered          0
```

The control queue display of the detailed information area from MQSMF TASK output:

```
8 Open name                                SMFEVAL.QPU2.CONTROL.QUEUE
8 Queue type:QLocal                        SMFEVAL.QPU2.CONTROL.QUEUE
8 Queue indexed by NONE                    SMFEVAL.QPU2.CONTROL.QUEUE
8 First Opened    Jun 17 06:20:51 2013     SMFEVAL.QPU2.CONTROL.QUEUE
8 Last Closed     Nov 19 00:18:26 2020     SMFEVAL.QPU2.CONTROL.QUEUE
8 Page set ID                         4    SMFEVAL.QPU2.CONTROL.QUEUE
8 Buffer pool                         3    SMFEVAL.QPU2.CONTROL.QUEUE
8 Current opens                       0    SMFEVAL.QPU2.CONTROL.QUEUE
8 Total requests                      3    SMFEVAL.QPU2.CONTROL.QUEUE
8 Open Count                          1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Open Avg elapsed time              16 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Open Avg CPU time                  16 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Close count                         1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Close avg elapsed time              5 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Close avg CPU time                  5 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get count                           1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Get avg elapsed time               24 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get avg CPU time                   24 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get TOQ average                   313 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get TOQ maximum                   313 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get TOQ minimum                   313 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Get valid count                     1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Get size maximum                   80 bytes SMFEVAL.QPU2.CONTROL.QUEUE
8 Get size minimum                   80 bytes SMFEVAL.QPU2.CONTROL.QUEUE
8 Get size average                   80 bytes SMFEVAL.QPU2.CONTROL.QUEUE
8 Get Dest-Next                       1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Get not persistent count            1    SMFEVAL.QPU2.CONTROL.QUEUE
8 Curdepth maximum                    0    SMFEVAL.QPU2.CONTROL.QUEUE
8 Total Queue elapsed time           46 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Total Queue CPU used               46 uS SMFEVAL.QPU2.CONTROL.QUEUE
8 Grand total CPU time             3557 uS
8 Grand Elapsed time              31089 uS
```

→

Control Queue Information Comparison Chart

Information	Field Name	Structure & DSECT	Data from Sample	MQ116S Label or Location	MQSMF Label or Location
Open name used by application	OBJNAME	WQST CSQDWQ	SMFEVAL.QPU2.CONTROL.QUEUE	Open Name	On line with queue type
Object type	QTYPE	WQST CSQDWQ	Local Queue/Qlocal	Object type	Queue type
Base Object name as resolved by the queue manager	BASENAME	WQST CSQDWQ	SMFEVAL.QPU2.CONTROL.QUEUE	Base Name	Base Name, repeated on every line pertaining to this ququq
Base type	Set by print program	WQST CSQDWQ	Queue	Base Type	No longer printed
Index on queue	INDXTYPE	WQST CSQDWQ	None/Unknown	Queue indexed by	Queue indexed by
Time Topic opened (this is the first time if data is accumulated)	OPENTIME	WQST CSQDWQ	17-06-2013 10:21:15.30	First opened	First opened
Time the Topic was closed (this is the last time if data is accumulated)	CLOSTIME	WQST CSQDWQ	19-11-2020 04:18:50.44	Last closed	Last closed

Page Set ID	NPS	WQST CSQDWQ	4	Page set ID	Page set ID
Buffer Pool	NBUFFPOOL	WQST CSQDWQ	3	Buffer pool	Buffer pool
Current Opens	Is this calculated?	WQST CSQDWQ	0	Current opens	Current opens
Total MQ API calls for this queue/Task	TOTAL_USE	WQST CSQDWQ	3	Total requests	Total requests
The number of report, event, trigger, and expiry messages generated	NGEN	WQST CSQDWQ	0	Generated messages	Does not appear in this sample because no messages were generated
Persistent message activity for queue		WQST CSQDWQ			
Persistent message MQGET count	GETPMSG	WQST CSQDWQ	0	GETs	Does not appear in the sample because all the messages are nonpersistent
Persistent message MQPUT count	PUTPMSG	WQST CSQDWQ	0	PUTs	Does not appear in the sample because all the messages are

					nonpersistent
Persistent message MQPUT1 count	PUT1PMSG	WQST CSQDWQ	0	PUT1s	Does not appear in the sample because all the messages are nonpersistent
Put to Waiting getter counts		WQST CSQDWQ			
MQPUT to Waiting getter counts	PUTPWG	WQST CSQDWQ	0	Put to waiting getter PUT	Does not appear in the sample because there are no MQPUTs to this queue
MQPUT1 to Waiting getter counts	PUT1PWG	WQST CSQDWQ	0	Folowing PUT1	Does not appear in the sample because there are no MQPUT1s to this queue
MQGETs Summary		WQST CSQDWQ			
Valid MQGETs	VALIDGET	WQST CSQDWQ	1	GETs Valid	Get count
Maximum MQGET message size	GETMAXMS	WQST CSQDWQ	80	Max size	Put size maximum

Minimum MQGET message size	GETMINMS	WQST CSQDWQ	80	Min size	Get size minimum
Total number of bytes retrieved	GETBYTES	WQST CSQDWQ	80	Total bytes	Not printed
Destructive Gets - for a specific message	GETS	WQST CSQDWQ	0	GETs Dest-S	Does not appear in the sample because there are no MQGETs for a specific message
Destructive Gets - for the next message	GETA	WQST CSQDWQ	1	Dest-G	Get Dest-Next
Non-Destructive Gets - for a specific message	GETBRWS	WQST CSQDWQ	0	Brow-S	Does not appear in the sample because there are no non-destructive MQGETs for a specific message
Non-Destructive Gets - for any message	GETBRWA	WQST CSQDWQ	0	Brow-G	Does not appear in the sample because there are no non-destructive MQGETs for any message

Successful Destructive MQGETs		WQST CSQDWQ		1	Sucessful destructive	
Queue Latency		WQST CSQDWQ				
Maximum time on queue	MAXLATNT	WQST CSQDWQ	0.000313/313		Time on queue Max	Get TOQ maximum
Minimum time on queue	MINLATNT	WQST CSQDWQ	0.000313/313		Min	Get TOQ minimum
Average Time on queue	Calculated from TOTLATNT/Valid gets?		0.000313/313		Avg	Get TOQ average
Queue Open		WQST CSQDWQ				
Number of MQOPENs	OPENN	WQST CSQDWQ		1	Under the 'N' Column	Open Count
Open average elapsed time	Calculated from OPENET/OPENN?			16	Under the 'ET' Column	Open Avg elapsed time
Open average CPU time	Calculated from OPENCT/OPENN?			16	Under the 'CT' Column	Open Avg CPU time
Queue Close		WQST CSQDWQ				
Number of MQCLOSEs	CLOSEN	WQST CSQDWQ		1	Under the 'N' Column	Close Count
Close average	Calculated from CLOSEET/CLOSEN?			5	Under the 'ET' Column	Close Avg elapsed time

elapsed time					
Close average CPU time	Calculated from CLOSECT/CLOSEN?		5	Under the 'CT' Column	Close Avg CPU time
MQGET from queue					
Number of MQGETs	GETN	WQST CSQDWQ	1	Under the 'N' Column	Get Count
MQGET average elapsed time	Calculated from GETET/GETN?	WQST CSQDWQ	24	Under the 'ET' Column	Get Avg elapsed time
MQGET average CPU time	Calculated from GETCT/GETN?	WQST CSQDWQ	24	Under the 'CT' Column	Get Avg CPU time
Maximum depth on the queue during this task	MAXQDPTH	WQST CSQDWQ	0	Maximum depth encountered	Curdepth maximum
Get not persistent count	Calculated from GETN – GETPMSG		1	N/A	Get not persistent count
Total Queue elapsed time	Calculated Value		46	N/A	Total Queue elapsed time
Total Queue CPU used	Calculated Value		46	N/A	Total Queue CPU used
Grand total CPU time	Calculated Value		3557	N/A	Grand total CPU time

Grand Elapsed time	Calculated Value?		31089	N/A	Grand total elapsed time

Many thanks !

Many thanks to :

Colin Paice
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Any errors or omissions are mine and mine alone. I do have plans to expand this document as I have time.

Lyn