

on	figuration Eve	nts					S H A R I		
Or	nce config events a	aro onah	hal						
	e e								
•	Changes to the obje	ects are r	ecorde	ed					
	 On z/OS the messages will typically be persistent 								
		iges will ty	piculiy	be pero	lotont		_		
	Queues Fiter: ADMIN								
	Fiter: ADMIN								
	Fiter: ADMIN V Queue name	Queue type	QSG disposi	Open input count	Open outp	Current queue depth			
		Queue type Local	QSG disposi Queue man		Open outp 0	Current queue depth			
	V Queue name			0					
	Queue name SYSTEM.ADMIN.ACTIVITY.QUEUE	Local	Queue man	0	0	0			
	Queue name SYSTEM.ADMIN.ACTIVITY.QUEUE SYSTEM.ADMIN.CHANNEL.EVENT	Local Local	Queue man Queue man	0	0	0			
	Queue name SYSTEM.ADMIN.ACTIVITY.QUEUE SYSTEM.ADMIN.CHANNEL.EVENT SYSTEM.ADMIN.COMMAND.EVENT	Local Local Local	Queue man Queue man Queue man	0 0 0 0	0	0			
	✓ Queue name SYSTEM.ADMIN.ACTIVITY.QUEUE SYSTEM.ADMIN.CHANNEL.EVENT SYSTEM.ADMIN.COMMAND.EVENT JJ SYSTEM.ADMIN.COMMAND.QUEUE	Local Local Local Alias	Queue man Queue man Queue man Queue man	0 0 0 0 0 0 0	0 0 0 0	0 0 0 0			
	Queue name GySTEM.ADMIN.ACTIVITY.QUEUE SYSTEM.ADMIN.ACTIVITY.QUEUE SYSTEM.ADMIN.COMMAND.EVENT SYSTEM.ADMIN.COMMAND.QUEUE SYSTEM.ADMIN.COMFIG.EVENT	Local Local Local Alias Local	Queue man Queue man Queue man Queue man Queue man	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 14			

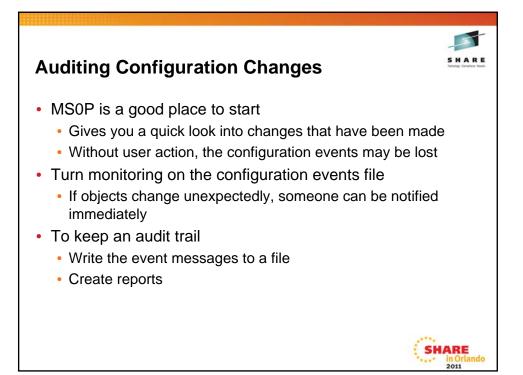
Configura • Message		nan readable	e'	SHARE Hare bases has
	General Report - Context - Identifiers - Segmentation - Data	Data Data length: Format: Coded character set identifier: Encoding: Message data: Message data bytes:	1532 MQEVENT 500 785 0 0 3 0 0 3 10 0 3 10 0 3 10 0 10	SHARE

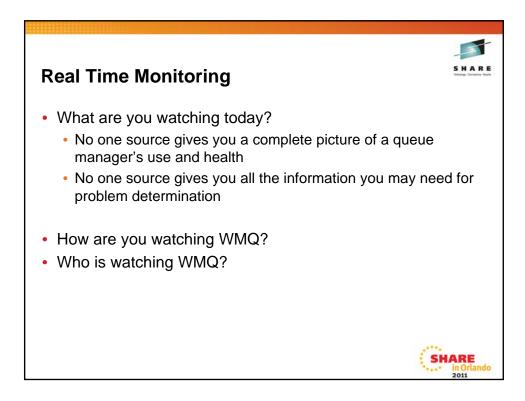
Configuration Events	S H A R E Tatage (ander but
 They can easily be displayed using MS0P Plug-In Right click on the queue name and select 'Format Events and Statistics selection panel is used to select messages to be formatted 	
WebSphere MQ Events and Statistics	
Queue Manager QML1 Operation Reading from SYSTEM.ADMIN.CONFIG.EVENT	
Message Access Application Identity Previous Results Browse Name Image: Name Get Name, ConnID, Pid, Tid Image: Conne Tidentity Time Filtering (vyyymmddibhNMtss) Image: Conne Tidentity Image: Conne Tidentity	
Include messages after Include messages before	
OK Cancel	
	SHARE in Orlando 2011

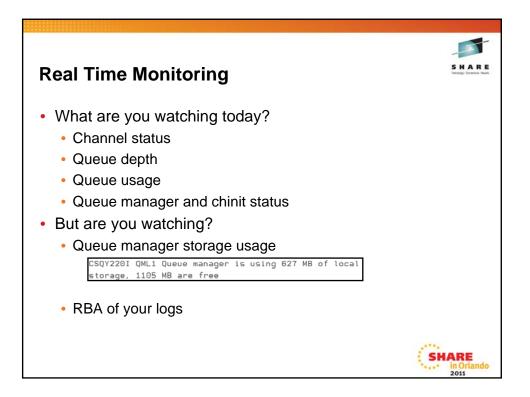
Configuration Events	
 The event messages are configured and can be e 	exam
to see the changes that have been made	
Events and Statistics 🛛 🖉 MO Explorer - Content 🍸 Administration Log	
Queue Manager: QML1	
Last Operation: Reading from SYSTEM.ADMIN.CONFIG.EVENT	
Events for Queue Manager DEPTXN3.DTCC.SEP12.SMF B SYSTEM.ADMIN.CONFIG.EVENT: 14 events	
	1
[2011/02/24 17:04:57] Config Change Object [2368]	-
P [2011/02/24 17:07:02] Config Create Object [2367]	-
 	
 	-
	3
 	3]
	8] 8]
• •	8] 8] 8] 8] 8]
 [2011/02/24 17:07:02] Config Create Object [2367] [2011/02/24 17:08:01] Config Change Object [2368] [2011/02/24 17:08:01] Config Change Object [2368] [2011/02/24 17:08:04] Config Change Object [2368] [2011/02/24 17:08:04] Config Change Object [2368] [2011/02/24 17:08:07] Config Change Object [2368] [2011/02/24 17:02:07] Config Change Object [2368] [2011/02/24 17:10:23] Config Create Object [2367] [2011/02/24 17:12:27] Config Delete Object [2369] 	8] 8] 8] 8] 8] 7]
• •	3] 3] 3] 3] 7] 9]

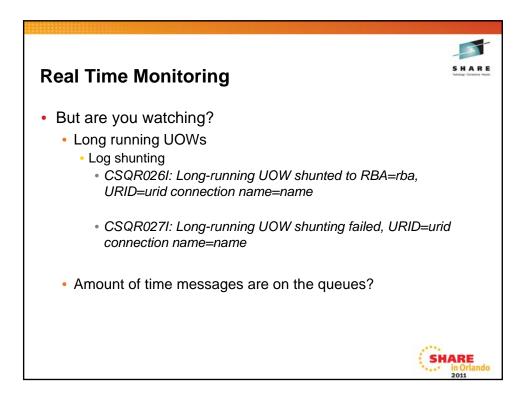
Configuration Events - Notes	SHARE Tabatag - Demaktive - Reality
•	
• Note that shange measures are in pairs	abowing the
 Note that change messages are in pairs, 	•
before and after image. Creation and del	etion are single
messages.	-
Events and Statistics 🖄 🖉 MO Explorer - Content 🚩 Administration Log	
Queue Manager: OML1	
Last Operation: Reading from SYSTEM.ADMIN.CONFIG.EVENT	
Events for Queue Manager (DEPTXN3.DTCC.SEP12.SMF)	
SYSTEM.ADMIN.CONFIG.EVENT: 14 events	
	[2368]
[2011/02/24 17:04:57] Config Change Object	[2368]
[2011/02/24 17:07:02] Config Create Object	[2367]
[2011/02/24 17:08:01] Config Change Object	[2368]
	[2368]
P [2011/02/24 17:08:04] Config Change Object	[2368]
P [2011/02/24 17:08:04] Config Change Object	[2368]
[2011/02/24 17:08:07] Config Change Object	[2368]
	[2368]
P [2011/02/24 17:10:23] Config Create Object	[2367]
P [2011/02/24 17:12:27] Config Delete Object	[2369]
[2011/02/24 17:12:40] Config Delete Object	[2369]
[2011/02/25 11:01:27] Config Create Object	[2367]
⊕ 🏱 [2011/02/25 12:01:19] Config Delete Object	[2369]
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	•••• in Orlando
	2011

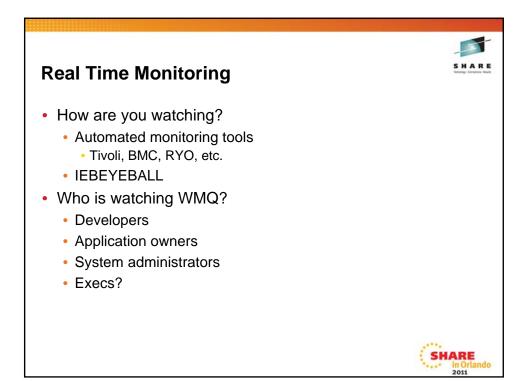
Configuration E	vents Before and A	fter SHA
 P[2011/03/01 13:14:38] Config Change Object Event Type : Config - Befor Event User Id : ELAINSOT Event Origin : Mag Event Queue Manager : QML1 Event Accounting Token : 1a0fd8d4d3flc3 Event Appl Identity : Event Appl Name : WebSphere MQ CL Event Appl Name : WebSphere MQ CL Event Appl Name : SYSTEM.ALMIN.DL Queue Name : SYSTEM.ALMIN.DL Queue Dasc : 	- Event User Id - Event Origin - Event Queue Manager - Event Accounting Token - Event Appl Identity - Event Appl Type - Event Appl Origin - Object Type - Queue Name	: Config - After Change : ELKINSCT : Mag : QML1 : 1a0fd8d4d3flc3c8c9d5f1f4c6c6f7c1c : : Java : WebSphere MQ Client for Java : : Queue : SYSTEM.ADMIN.LYNTEST

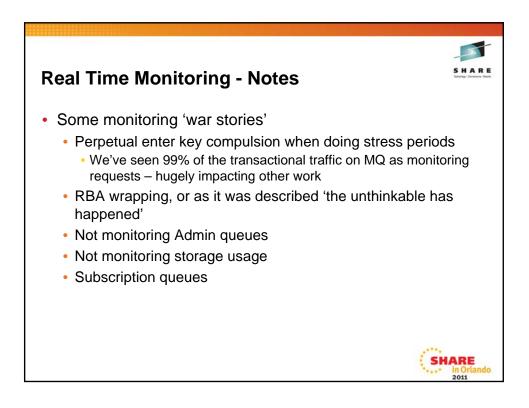


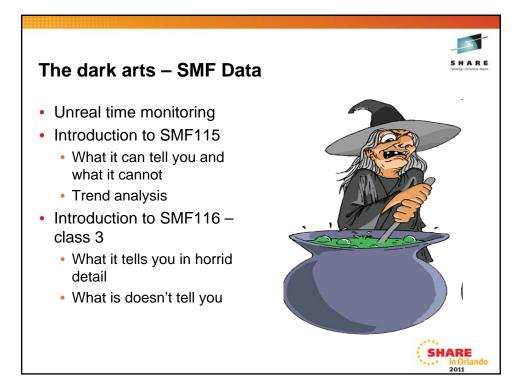


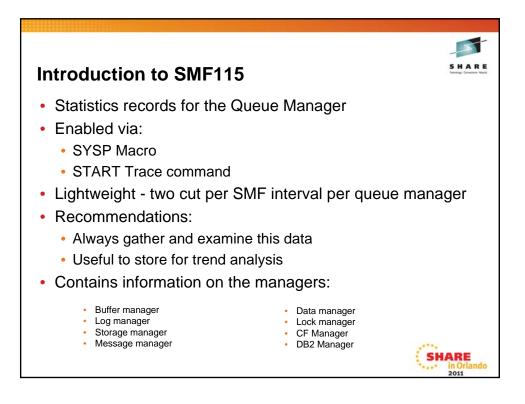


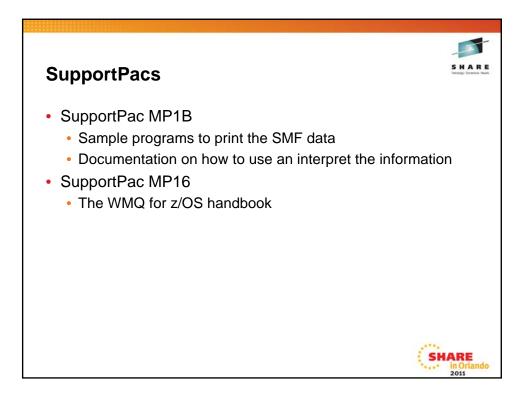


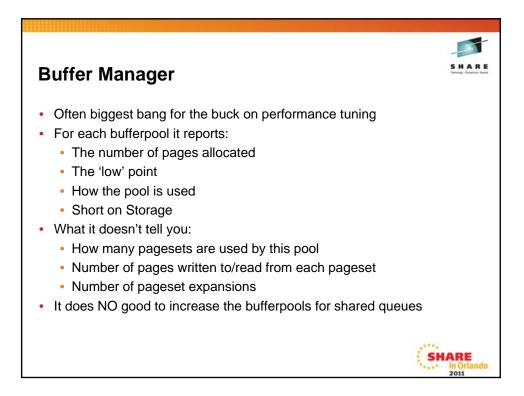


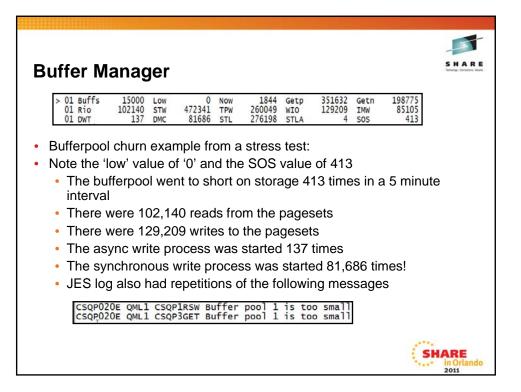




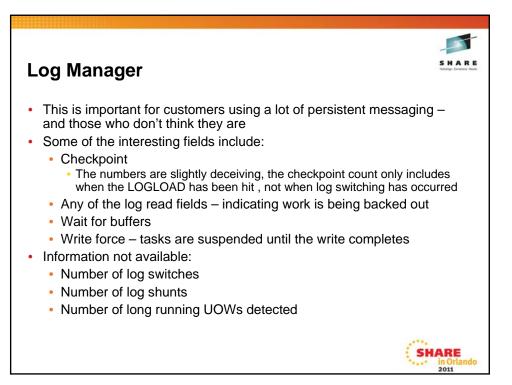






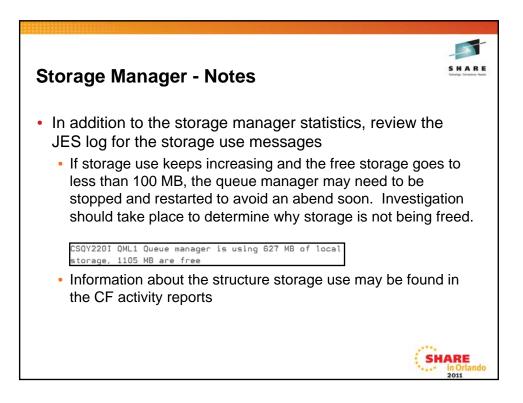


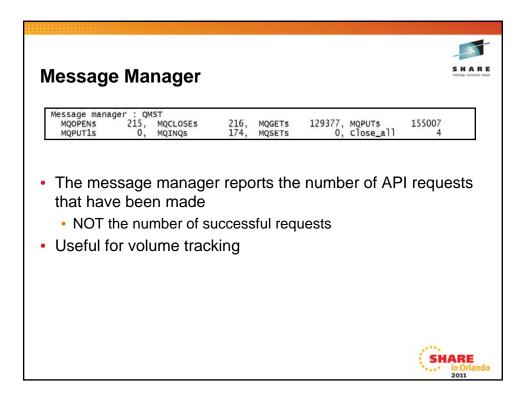
Buffer Manager - Notes	S HARE Hare the
> 01 Buffs 15000 Low 0 Now 1844 Getp 351632 Getn 198775 01 Rio 102140 STW 472341 TPW 260049 WIO 129209 IMW 85105 01 DWT 137 DMC 81686 STL 276198 STLA 4 SOS 413	
 The information in interpretation is taken from MP1B While this example is from a stress test, we have seen similar situe in production environments If the bufferpool becomes completely exhausted and nothing can freed, the queue manager will abend with a '00D70120' reason can obtained from the JES log CSQP0171 QML1 CSQPEXT1 EXPANSION STARTED FOR PAGE SET 1 CSQP0131 QML1 CSQPEXT1 NEW EXTENT CREATED FOR PAGE SET 1. NEW EXTENT WILL NOW BE FORMATTED 	be ode
s	HARE in Orlando 2011

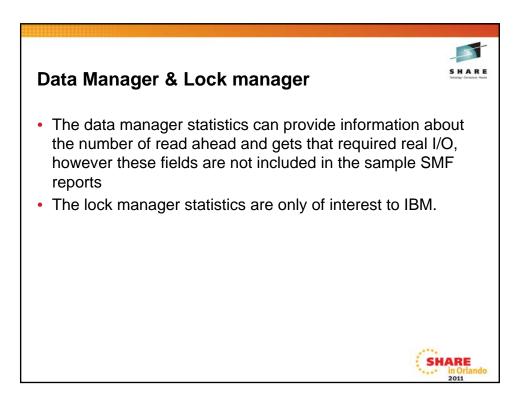


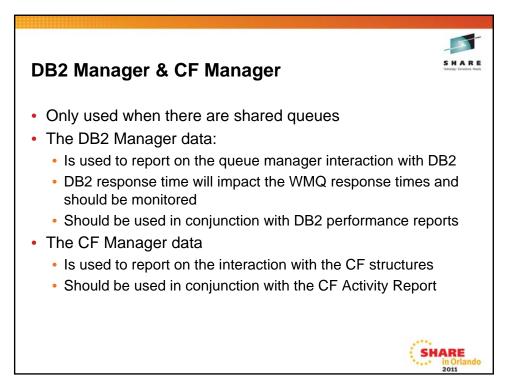
Log manager	ager	32 4-0.5	Stevac. Value as y	5	264400 L2*		S H A R Teleng-Conder
Write_Wait Read_Stor BSDS_Reqs ALW WUR Write_Susp Write_Serl	0, 0, 814, 0, 0, 101189, 0,	Write_Nowait Read_Active CIs_Created CIs_Offload LAMA Write_Reqs write_Thrsh	3818652, 0, 750066, 914688, 0, 41648, 2381.	Write_Force Read_Archive BFWR Checkpoints LAMS CI_Writes Buff_Pagein	1663, 0, 103576, 0 758876	WTB TVC ALR	179 0 0
20 du • WTB	that ch uring the	eckpoints v e interval c e wait coun	aused b It for un	but there h by log switc available b mended va	hes uffers, a		

	-
Storage Manager	SHARE Tudorige Denadore Heads
Storage manager : QSST Fixed pools : Created 48, Deallocated 49 Fixed segments: Freed 0, Expanded 1, Contracted	1
Varbl pools : Created 38, Deallocated 38 Varbl segments: Freed 6178, Expanded 6178, Contracted Getmains 48, Freemains 48, Non-zero RCs 0 SoS bits 0, Contractions 0, Abends 0	0
 Two fields are of interest: SOS bits – QSSTCRIT – which indicates a critical shor A sort on storage was detected – QSSTCONT – and si contractions had to be done. Information not available: High and low watermark use, both below and above th Storage use by type (security caching, index, etc.) Storage use in the CHIN by clients and channels 	torage

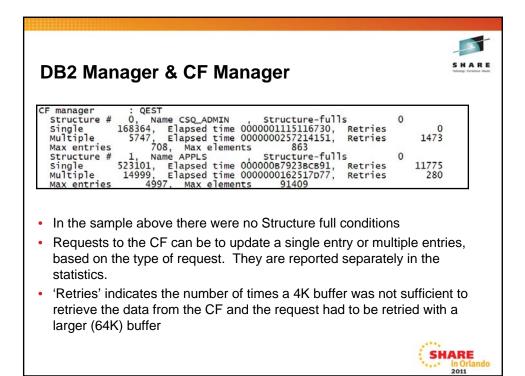




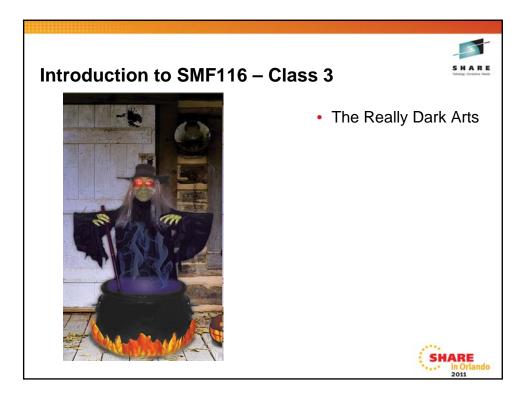


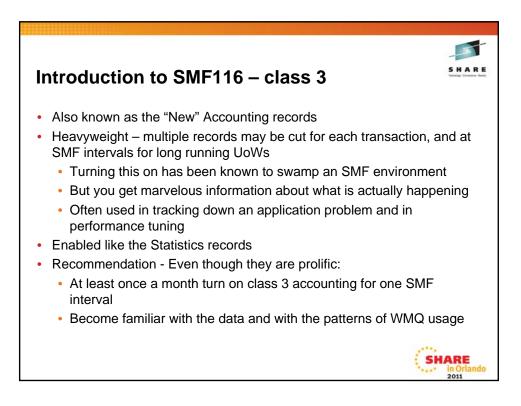


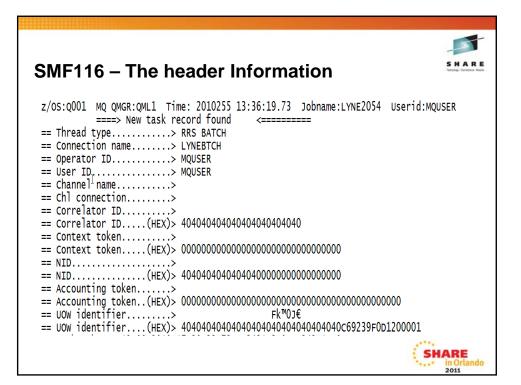
High mber of dea		8, 14,	Active Abend	9, 0,	Conns Reque			0, 0	Discs		0
ider of dea		Count 580	Task avg	Task	max 2	DB2	avg	C	DB2 max	(m/s)	
ts	÷	485	4		97		4		97		
5 Selects 5 Inserts	÷	30 212	5 8		33 47		8		33 47		
5 Updates	:	272	5		49		5		49		
S Deletes	÷	224	0		25	I	0		25		
ater ma	ark o	n requ	re, the 'H uests to for Sha	the	DB2	2 sei	rver	•			high

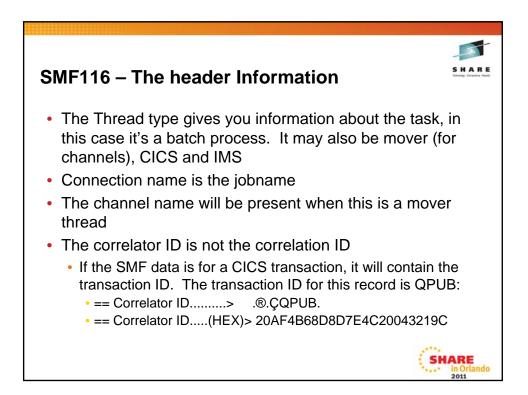




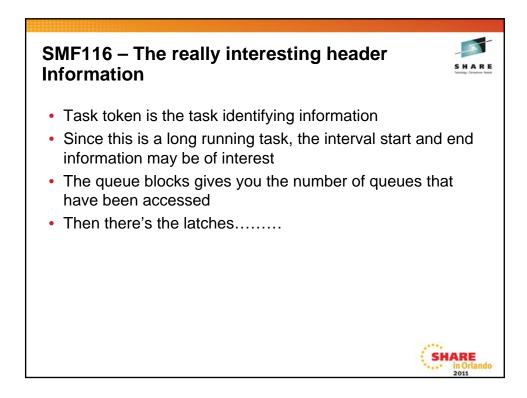






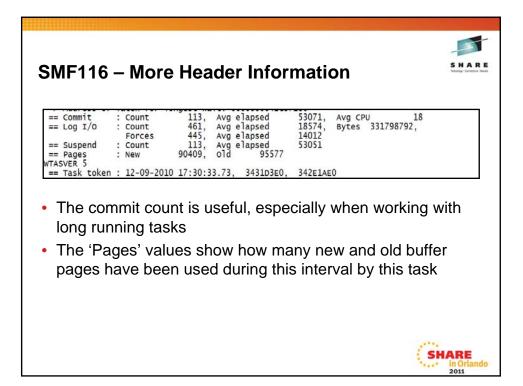


SMF116 – The Header Information – cont'd	SHARE hing-fraine-has
<pre>> Latch 21, Total wait 18040644 mics, waits 10680, Name RLMLWRT > Latch 24, Total wait 225667 mics, waits 53, Name LMXL1 > Latch 31, Total wait 0 mics, waits 2, Name DPSLTCH > Latch 32, Total wait 28816 mics, waits 45, Name SMCPHB > Address of latch for longest wait: 0000000042c37E80 == Commit : Count 113, Avg elapsed 53071, Avg CPU 18 == Log I/0 : Count 461, Avg elapsed 18574, Bytes 331798792, Forces 445, Avg elapsed 14012 == Suspend : Count 113, Avg elapsed 53051 == Pages : New 90409, Old 95577 wTASVER 5</pre>	RLMARQC SRH1_L19
== Task token : 12-09-2010 17:30:33.73. 3431D3E0. 342E1AE0	SHARE in Orlando 2011



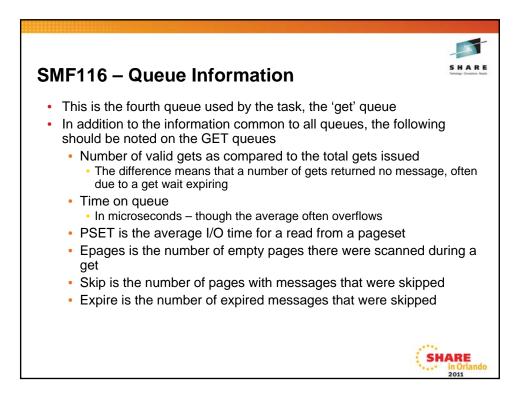
SMF116 – La Ind the	tching – The G	ood, the bad	S H A R Here been b
== Latch : Max nu > Latch 7, Total v > Latch 11, Total v > Latch 12, Total v > Latch 15, Total v > Latch 16, Total v > Latch 19, Total v > Latch 21, Total v > Latch 21, Total v > Latch 31, Total v > Latch 32, Total v > Latch 32, Total v > Latch 32, Total v	vait 161 mics, waits vait 6473 mics, waits vait 2483916 mics, waits vait 166693 mics, waits vait 70987 mics, waits vait 35788780 mics, waits vait 18040644 mics, waits vait 225667 mics, waits vait 0 mics, waits	78, Name BMXL2 RM 1586, Name BMXL3 CF 10680, Name RLMLWRT 53, Name LMXL1 2, Name DPSLTCH 45, Name SMCPHB	
 There is always But there are investigated 	ormed to serialize request to serialize request to serialize request to serialize request to the series of those times		Ū
			SHARE in Orland 2011

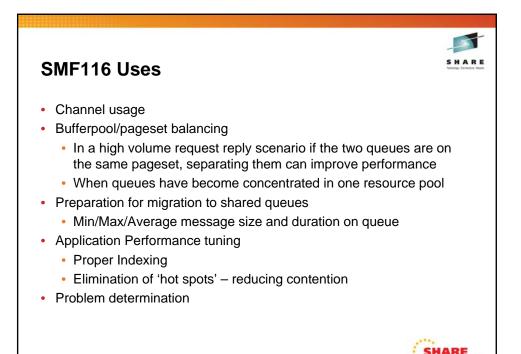
== Latch	: Max_number	19, Max wa				
	, Total wait , Total wait , Total wait , Total wait , Total wait , Total wait , Total wait	161 mics, wai 6473 mics, wai 2483916 mics, wai 166693 mics, wai 70987 mics, wai 35788780 mics, wai 18040644 mics, wai 225667 mics, wai 0 mics, wai	ts 9, ts 102, ts 55, ts 78, ts 1586, ts 10680, ts 53,	Name DMCISTGC Name DMCSEGAL Name DMCNMSPC Name CMXL1 Name BMXL2 Name BMXL3 Name RLMLWRT Name LMXL1 Name DPSLTCH	SSSCONN	RLMARQC SRH1_L19
> Address The 'Max n Latch types	umber' is really th may be used for	28816 mics, wait ngest wait: 0000000 ne latch type that show r multiple purposes	ved the longest v	,	,	
Latch 21, the Using these during this	ne second largest e numbers, and lo interval there we	he more typical entries t wait count, is used wh poking at the JES messive re numerous log switch ared I/O subsystem issi	hen updating log sage log for the les and one of the	buffers. queue manager ne bufferpools e	r indicates expanded	that

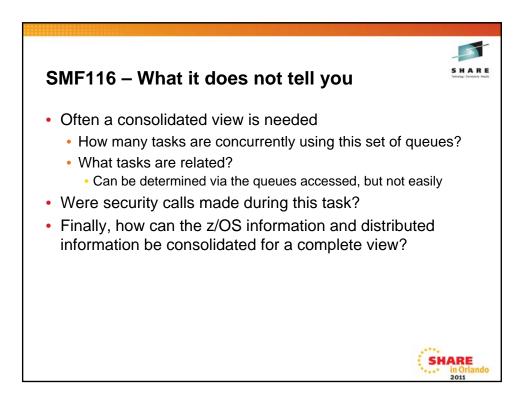


en name LYN.LOGQ.Q11 se name LYN.LOGQ.Q11 leue indexed by NONE rst opened 12-09-201				Object ty Base type	pe:Local Queue Queue	
st closed 12-09-201 ge set ID mrrent opens merated messages :	0 1/:36:19.60 63, Buffer pool 0, Total reque		3 4157			
rsistent messages: G		PUTS PUT1	4155,	PUT1s	0	
nt to waiting getter: ITS: Valid 4155, NQ call- N Open : 1 Close : 1		5712, Min ст 39 5		17856, то LOGW	otal bytes 1 PSET Epages	39 MB skip exp
ut : 4155 ogging: Total-count QPUT 326 iximum depth encounte	3.801852	193 Force-cour 31		915 elapsed .852607		
This is the first qu		e task				
•	ieue used by the		by this t	ask includ	lina:	

irst opened 12-09-2010 17:30:33.73							
ast closed 12-09-2010 17:36:19.60 age set ID 4, Buffer pool urrent opens 0, Total requests	1 8518						
enerated messages : 0 ersistent messages: GETS 8200, PUT ut to waiting getter: PUT 0, PU		PUT1s	0				
ETs: Valid 8200, Max size 7750 ETs: Dest-S 0, Dest-G 8515, ime on queue : Max 26.319674, Min 0	, Min size Brow-S 0.011420, Avg 42	7750, To 0, Brow-G 294967269.00			ssful d	estructive	820
MQ call- N ET CT Open: 1 71 36 Close: 1 7 7	36	LOGW	PSET E	bages	skip ex	pire	
Get : 8515 1608 47 Inquire: 1 12 9	1137	0	0	198	0	0	
	ce-count Force	-elapsed 0.002355					







	Monday	Tuesday	Wednesday	Thursday	Friday
08:00			More than a buzzword: Extending the reach of your MQ messaging with Web 2.0	Batch, local, remote, and traditional MVS - file processing in Message Broker	Lyn's Story Time - Avoiding the MQ Problems Others have Hit
09:30		WebSphere MQ 101: Introduction to the world's leading messaging provider	The Do's and Don'ts of Queue Manager Performance	So, what else can I do? - MQ API beyond the basics	MQ Project Planning Session
11:00		MQ Publish/Subscribe	The Do's and Don'ts of Message Broker Performance	Diagnosing problems for Message Broker	What's new for the MQ Family and Message Broker
12:15	MQ Freebies! Top 5 SupportPacs	The doctor is in. Hands-on lab and lots of help with the MQ family		Using the WMQ V7 Verbs in CICS Programs	
01:30	Diagnosing problems for MQ You a	WebSphere Message Broker 101: re Here	The Dark Side of Monitoring MQ - SMF 115 and 116 record reading and interpretation	Getting your MQ JMS applications running, with or without WAS	
03:00	Keeping your eye on it all - Queue Manager Monitoring & Auditing	The MQ API for dummies - the basics	Under the hood of Message Broker on z/OS - WLM, SMF and more	Message Broker Patterns - Generate applications in an instant	
04:30	Message Broker administration for dummies	All About WebSphere MQ File Transfer Edition	For your eyes only - WebSphere MQ Advanced Message Security	Keeping your MQ service up and running - Queue Manager clustering	
06:00			Free MQ! - MQ Clients and what you can do with them	MQ Q-Box - Open Microphone to ask the experts questions	