Export

Peak Incident Management System

		magement syste			
Call Reference	PC0070702	Call Logger	gger POA Deleted User Deleted Te		
Release	Targeted At Horizon Future Unspecified	Top Ref	900		
Call Type	System Testing Incidents/Defects	Priority	D Non-urgent		
Contact	Deleted Contact	Call Status	Closed Administrative Response		
Target Date	10/10/2002	Effort (Man Days)	(Man Days) 0		
Summary	Time drift during Slave counter recovery				
All References	Type	Value			
	Supplier reference	900			
833888	Test reference	TCMSG10			

Progress Narrative

Date:15-Oct-2001 08:22:00 User:Madhu Karia

CALL PC0070702 opened References entered are:

T Test reference : TCMSG10

Product Infrastructure RIPOSTE messaging sw added

Target Release entered: Unknown

Time drift during Slave counter recovery On test rig INF2, both the Gateway and Slave at FAD 505038 were built to S10 level with riposte ver 6.0.3.22. A large messagestore (from Trafalgar Square) was replicated from the Gateway to the Slave. It was observed that during index inserts following message inserts (as indicated on the performance monitor) the clock on the Slave started drifting behind the Gateway and catching up at the end of replication. Inspection of the NT Eventlog showed lots of time synchronisation messages. Evidence has been forwarded to Mark Jarosz.

Please route this call to Mark Jarosz.

CALL PC0070702:Priority D:CallType S - Target 29/10/01 09:22:02

The Call record has been assigned to the Team Member: Chris Rayner

Defect cause updated to 42:Gen - Outside Pathway Control

Hours spent since call received: 3 hours

Date:15-Oct-2001 09:15:00 User:Chris Rayner

Please route this call to Mark Jarosz (TDA) for investigation/resolution,

Mark is already aware of the problem and evidence.

[END OF REFERENCE 27867466]

Responded to call type S as Category 30 -TL confirmed

The response was delivered on the system

The Call record has been transferred to the Team: QFP

Hours spent since call received: 0 hours

Date:15-Oct-2001 10:07:00 User:Tariq Arain

The Call record has been transferred to the Team: Escher-Dev

Hours spent since call received: 0 hours

Date:26-Oct-2001 06:53:00 User:Gareth Jenkins

Mark has talked to Madhu about this.

Basically, Mark has asked him to come up with a recipe for reproducing this problem based on a synthetic message store that Escher can generate themselves. Once he has done this then we can forward direct to Escher.

Therefore we need to route this PinICL back to Madhu.

Gareth (from MJ email)

The Call record has been transferred to the Team: IP System Test

Hours spent since call received: 0 hours

Date:20-Nov-2001 12:40:00 User:Tariq Arain

Target Release updated to BI 2

Date:21-Nov-2001 14:50:00 User:Madhu Karia

The Call record has been assigned to the Team Member: Madhu Karia Hours spent since call received: 0.1 hours

Date:04-Dec-2001 08:48:00 User:Madhu Karia

Install riposte on two systems on the same LAN giving them the same group id but different node id, say 123456,1 and 123456,2.

Start riposte on both systems and apply the appropriate license and build

objects. Use riposteputmessage to create a large number of messages, say 200000, on each system. Create about 30 indexes, including Date, Time, CRC, on each system. Use ripostenode to configure the two systems to be neighbors and let the messagestores synchronise. Configure 123456,2 to synchronise time with 123456,1 with a drift value of 5 seconds. Stop riposte on 123456,2 and delete the messagestore. Start riposte on 123456,2 and let it recover from 123456,1. Display clocks on both systems. Run perfmon on 123456,2 and display riposte counters MessageInserts/sec, IndexInserts/sec. After about 20 minutes, when MessageInserts have been completed and IndexInserts is taking place, the clock on 123456,2 starts to lag the one on 123456,1. The lag continues to increase until all the indexing activity is complete. Then the two clocks synchronise. NT event log shows a large number of time synch messages (ID 198, 199) The Call record has been transferred to the Team: Escher-Dev Hours spent since call received: 3 hours Date:04-Dec-2001 10:37:00 User:Del(04/03 Brian Orzel) Email to Gareth Date:04-Dec-2001 12:11:00 User:Madhu Karia Apologies for being a bit too hasty with the 'send' key. Attached herewith is a zip file containing the full event log from node 2 and a snapshot of the network trace while node 2 was falling behind node 1. At the time the cpu usage on node 2 was between 20 and 30 percent. The time drift observed at one stage was nearly an hour and still drifting behind.

New evidence added - Event log and network trace

Date:04-Dec-2001 12:36:00 User:Madhu Karia New evidence added - Text of event log

Date:05-Dec-2001 11:36:00 User:Madhu Karia

Brian Orzell suggested we repeat the above test on riposte 6.0.3. The 'time drift' problem was first observed on riposte 6.0.3.22 using the large Trafalgar Square messagestore. Then the problem was reproduced on riposte 6.2.5 using the test messagestore created by riposteputmessage (so Escher can reproduce the problem). I have, today, used the test messagestore procedure on riposte 6.0.3.22 using the same two counters and following the same procedure as before. Observations:

At 22:00 started node2 in recovery.

Clocks displayed on both nodel and node2

Perfmon showing MessageInserts and IndexInserts going on.

Approx 22:45 MessageInserts end, IndexInserts carries on and the clock on

node2 starts drifting straight away.

Netmon trace shows node2 responding with <Offline:1>

After about an hour node1 clock= 23:43:59 - node2 clock= 23:02:09

node2: ripostenode status for node1 shows Marker Delta: 0 messages ripostestatus 2 shows Status: Recovering ..License Object not

validated

Delta: O messages

nodel: ripostenode status for node2 shows Offline Disconnected and Marker

Hope this gives some clues in locating the problem.

Date:13-Dec-2001 11:00:00 User:Del(04/03 Brian Orzel)

I am sending this to Escher.

The Call record has been assigned to the Team Member: At-Escher

Hours spent since call received: 0 hours

Date:15-Jan-2002 09:39:00 User:Del(04/03 Brian Orzel)

Feedback from Escher:

PC0070702 Reproduced scheduled for WR 2.1.2

The Call record has been assigned to the Team Member: Escher recreated

Hours spent since call received: 0 hours

Date:17-Jan-2002 08:02:00 User:Del(04/03 Brian Orzel)

The following item needs additional investigation to determine how

destabilizing the fix might be:

PC0070702 900 D Recreated Time drift during Slave counter recovery

Date:22-Jan-2002 10:15:00 User:Del(04/03 Brian Orzel)

PC0070702 900 D rec.Discus? Time drift during Slave counter recovery

Km - An improvement is being planned in this area. The pure fix remains

under investigation.

Date: 05-Feb-2002 13:06:00 User: Del (04/03 Brian Orzel)

dispite the above, I can find no mention of this bug in the release note wor WR211. Retest?

The Call record has been transferred to the Team: IP System Test Hours spent since call received: 0 hours

Date: 05-Feb-2002 13:08:00 User: Del (04/03 Brian Orzel)

It is also still marked as open on the Escher database. I will ask them for an update.

Date:06-Feb-2002 09:13:00 User:Madhu Karia

Please return this call for testing when a fix / improvement is confirmed by Escher. If an improvement is claimed, please get a definition of the improvement so we know what we are looking for in the absence of a fix. The Call record has been transferred to the Team: Escher-Dev Hours spent since call received: 0.5 hours

Date:07-Feb-2002 09:45:00 User:Gareth Jenkins

Madhu,

We're getting confusing stories from Escher. Please can you repeat the test on 6.2.10 to see if anything has changed. We are not expecting any further versions of the message server for BI2, so we need to know exactly what is the case on this one.

Thanks

Gareth

The Call record has been transferred to the Team: IP System Test Hours spent since call received: 0 hours

Date:08-Feb-2002 16:42:00 User:Chris Rayner

The Call record has been assigned to the Team Member: Madhu Karia Hours spent since call received: O hours

Date:14-Feb-2002 08:44:00 User:Madhu Karia

With the Counters upgraded to Riposte 6.2.10 used the Trafalgar Square messagestore and a smaller 'synthetic' one to test the recovery. No time drift was evident on the clocks displayed on the Counters or the event logs. So, whatever it is that Escher did seems to have fixed the problem. There are a lot of events, EID 201: "Connected to neighbor (nnnn,m) while in recovery mode. <Marker:.....> " in the event log which occurred previously but were not mentioned as I thought they were part of the same problem. Seems to me to be a minor problem. Therefore, closing the call. CALL PC0070702 closed: Category 60, Type S Hours spent since call received: 4.0 hours

Date:19-Jun-2002 08:46:00 User:Del(04/03 Brian Orzel)

Fix claimed in todays WR2.1.2 release

Date:26-Sep-2002 09:07:00 User:Madhu Karia

CALL PC0070702 Reopened: Riposte 6.2.15 failed the test. CALL PC0070702:Priority D:CallType S - Target 10/10/02 10:07:20

Date:26-Sep-2002 09:10:00 User:Madhu Karia

Riposte 6.2.15 was used for testing Gateway to Slave replication. Time drift was evident as before.

The Call record has been transferred to the Team: Escher-Dev Hours spent since call received: 2 hours

Date:30-Sep-2002 13:07:00 User:Madhu Karia

A summary of the time synch and time drift problems ---In Riposte 6.0.3 and 6.2.5, the time drift during replication problem described in this call was noticed.

A fix for this problem was provided in Riposte 6.2.10. However, time synch between time server and client was affected (see PinICL 74043). In Riposte 6.2.12, the time synchronisation appeared to revert to the 6.2.5 behaviour. But, because this version of riposte was not taken on the counters, the time drift problem was not tested.

Riposte 6.2.15 is due to go on all platforms and was therefore tested on counters and correspondence servers. The time synch problem (PinICL 74043) has been fixed but the time drift during replication problem has reappeared.

Date:02-Oct-2002 10:07:00 User:Del(04/03 Brian Orzel)

The Call record has been assigned to the Team Member: At-Escher

Hours spent since call received: 0 hours

Date: 02-Oct-2002 10:35:00 User: Del (04/03 Brian Orzel)

The call references have been updated. They are now:-

Test reference : TCMSG10 T Supplier reference : 900

Date:10-Oct-2002 10:41:00 User:Lionel Higman

Target Release updated to BI_3S30

Date:10-Dec-2002 11:10:00 User:Lionel Higman

Retarget at request of Gareth Jenkins.

Target Release updated to Future Unspecified

Date: 09-Jan-2004 14:11:36 User: _Customer Call_

Please route this call to Mark Jarosz (TDA) for investigation/resolution, Mark is already aware of the problem and evidence.

Date:10-Mar-2004 08:06:32 User:Iain Janssens

Updated to Escher recreated after meeting with Alan Smalley 09-Mar-2004 The Call record has been assigned to the Team Member: Escher recreated

Date:21-Jun-2004 11:51:21 User:Lionel Higman

The call TargetRelease has been changed from:-

Future Unspecified

The call TargetRelease is now:-

Future Unspecified

Date:13-Sep-2004 14:05:29 User:Iain Janssens

[Start of Response]

This call is being returned for closure as a result of the Escher S80 review (held 10-Sep-2004). This has been agreed between Development and ITU (Simon

Vaughan) [END OF REFERENCE 38535697]

Response code to call type S as Category 68

Date:14-Sep-2004 07:29:08 User:Madhu Karia

[Start of Response]

Closing as per instructions above - no fix to the problem.

[END OF REFERENCE 38538960]

Response code to call type S as Category 68

Routing to Call Logger following Final Progress update.

Hours spent since call received: 0 hours

Date:14-Sep-2004 07:29:19 User:Madhu Karia

CALL PC0070702 closed: Category 68 Type S

Root Cause	Gen - Outs	side Pros	gram Control
		and comment of the co	

Logger POA Deleted User -- Deleted Team

Subject Product Infrastructure -- RIPOSTE messaging sw (version unspecified)

Assignee Deleted User -- Deleted Team

Last Progress 14-Sep-2004 07:29 -- Madhu Karia