

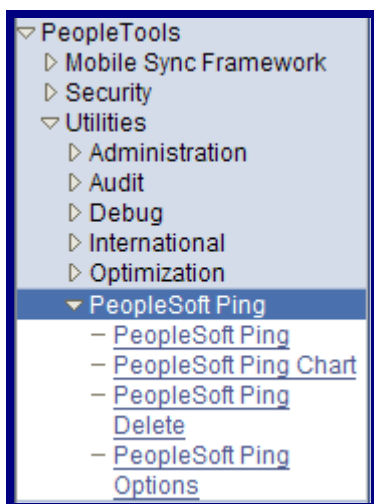
1.3 PS Ping

Available in PT8.42 and PT8.19 is a feature that will help to take some of the mystery out of where bottlenecks may be occurring in a PIA environment.

Delivered with Tools is a pre-coded “dummy” transaction that can repeatedly be executed to log time spent in the various tiers.

This feature is only available using this “dummy” transaction. In other words, it is not available on ANY transaction. So it will be useful as a “litmus” test for the health of your infrastructure, and it will be useful to run it while a workload is active to see if there are any bottlenecks, but it will not be useful for pinpointing performance problems with individual business transactions. You will still have to do that the hard way using available traces.

This transaction is executed from the PeopleTools, Utilities menu:

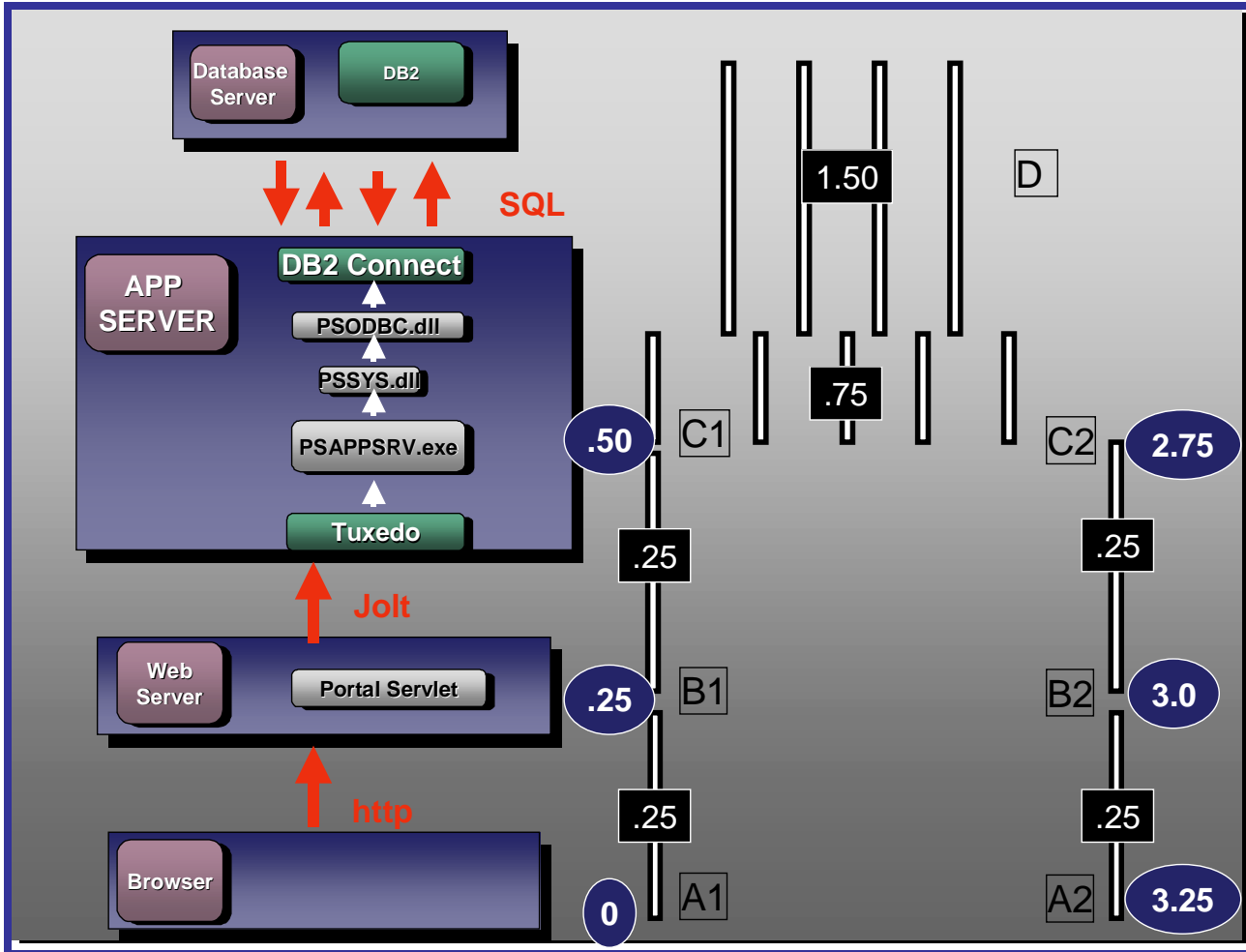


It will execute logic that does a variety of PeopleCode functions (string manipulation, rowset operation, array processing) against a couple of delivered tables populated with 10000 rows. In other words, it’s not a “shell” transaction. It does real work.

The data it reads comes from PS_PTP_TABLE1 and PS_PTP_TABLE2. It writes the output response time results to PS_PTP_TST_CASES.

As the message requests traverse the tiers, timers will record the elapsed times at various entry and exit points. These timers will then be used to paint a picture of where time is being spent.

Here is a picture and explanation of where the timers are set:



Label	Relative Time	Action	Result	Formula	Absolute Time
A1	0	Web browser sends HTTP message across Network to Web Server			
B1	0.25	Page servlet processes and sends Jolt message across Network to Application Server			
C1	0.5	PSAPPSRV.exe processes and sends SQL requests across network to DB Server			
D		Database server processes multiple SQL	Time in DB & Network	Sum DUR=	1.50
C2	2.75	Application Server completes work and sends Message back to Web Server	Time in App Server & Network	(C2-C1) - (D)	0.75
B2	3.0	Web Server completes work and sends Message back to Web Browser	Time in Web Server & Network	(B2 - B1) - (C2 - C1)	0.5
A2	3.25	Web Browser completes work and Displays page	Time in Web Browser & Network	A2 - (B2 - B1)	0.5

The "Ping" page itself looks like this:

PeopleSoft Ping

Test Case Identifier:

Repeat Time Interval (Seconds): **Counter:** 10

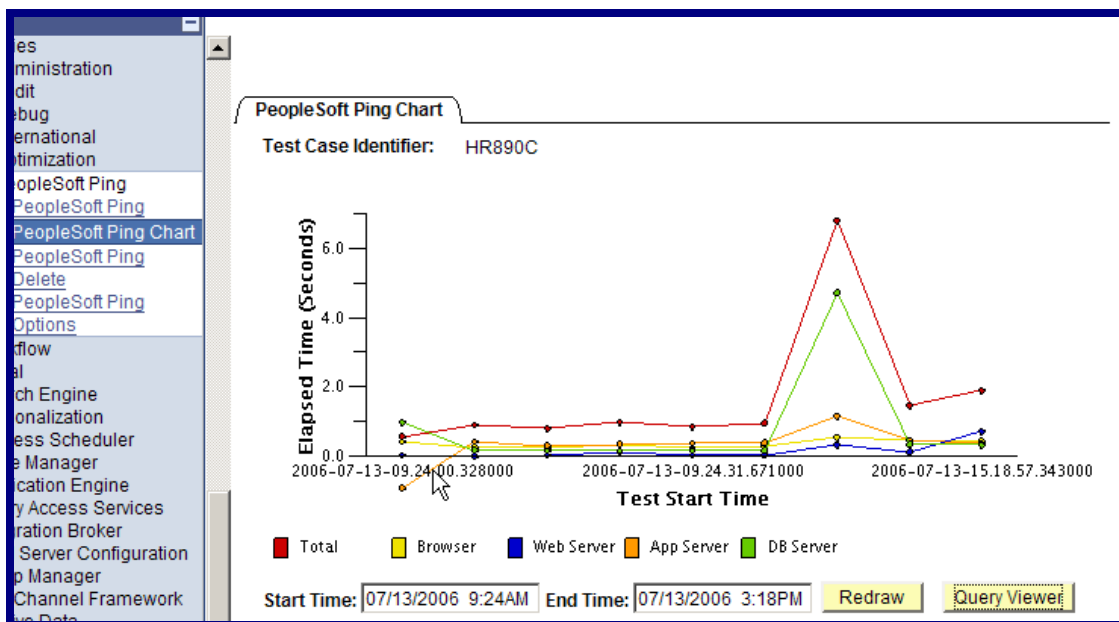
Total Time	Brwsr-Ntwk Time	WebServer Time	AppServer Time	Database Time
0.951	0.12	0.01	0.42	0.401

Sample Data
View All

Seq#	Sequence Text	Description
10001	010001	Test 010001
10001	11 101 102 103 104 105 A B C D E	
10001	12 101 102 103 104 105 A B C D E	
10001	13 101 102 103 104 105 A B C D E	
10001	14 101 102 103 104 105 A B C D E	
10001	15 101 102 103 104 105 A B C D E	
10001	16 101 102 103 104 105 A B C D E	
10001	17 101 102 103 104 105 A B C D E	
10001	18 101 102 103 104 105 A B C D E	
10001	19 101 102 103 104 105 A B C D E	
10001	20 101 102 103 104 105 A B C D E	

The "Repeat Time Interval" determines the frequency of execution. Results of each execution are displayed back on the screen, along with the Cumulative times:

In PT8.42, the PeopleSoft Ping Chart will display a graphical representation of these times as follows:



In PT8.19, you will have to use PSQuery to run a Query called PING_PAGE_RESULTS, which will display the results as follows:

Download results in : [Excel SpreadSheet](#) [CSV Text File \(1 kb\)](#)

View All First 1-4 of 4 Last

Test Case ID	Start time	Total Time	Browser/Network time	Webserver/Network time	Appserver/Network time	DB Server Time
1 PING 23	11/01/2002 12:23:06PM	10.845	0.611	0.240	3.805	6.189
2 PING 23	11/01/2002 12:23:22PM	7.001	1.483	0.090	4.296	1.132
3 PING 23	11/01/2002 12:23:34PM	5.918	1.111	0.070	3.555	1.182
4 PING 23	11/01/2002 12:23:45PM	6.520	1.754	0.080	3.624	1.062