

Session Manager

PMI Counter Name	Counter Description	Runtime Advisor
Servlet Session Manager.SessionObjectSize	The size in bytes of (the serializable attributes of) in-memory sessions. Only session objects that contain at least one serializable attribute object is counted. A session can contain some attributes that are serializable and some that are not. The size in bytes is at a session level.	
Servlet Session Manager.ActivateNonExistSessionCount	The number of requests for a session that no longer exists, presumably because the session timed out. Use this counter to help determine if the timeout is too short.	
Servlet Session Manager.TimeoutInvalidationCount	The number of sessions that are invalidated by timeout.	
Servlet Session Manager.TimeSinceLastActivated	The time difference in milliseconds between previous and current access time stamps. Does not include session time out.	
Servlet Session Manager.AffinityBreakCount	The number of requests that are received for sessions that were last accessed from another Web application. This value can indicate failover processing or a corrupt plug-in configuration.	
Servlet Session Manager.ExternalWriteSize	The size of the session data written to persistent store. Applicable only for (serialized) persistent sessions. Similar to external Read Time.	Advice-Yes
Servlet Session Manager.ExternalWriteTime	The time (milliseconds) taken to write the session data from the persistent store. Applicable only for (serialized) persistent sessions. Similar to external Read Time.	Advice-Yes
Servlet Session Manager.ExternalReadSize	Size of the session data read from persistent store. Applicable only for (serialized) persistent sessions; similar to external Read Time.	Advice-Yes
Servlet Session Manager.ExternalReadTime	The time (milliseconds) taken in reading the session data from the persistent store. For multirow sessions, the metrics are for the attribute; for single row sessions, the metrics are for the entire session. Applicable only for persistent sessions. When using a JMS persistent store, you can choose to serialize the replicated data. If you choose not to serialize the data, the counter is not available.	Advice-Yes
Servlet Session Manager.CacheDiscardCount	The number of session objects that have been forced out of the cache. A least recently used (LRU) algorithm removes old entries to make room for new sessions and cache misses. Applicable only for persistent sessions.	
Servlet Session Manager.NoRoomForNewSessionCount	Applies only to session in memory with AllowOverflow=false. The number of times that a request for a new session cannot be handled because it exceeds the maximum session count.	Advice-Yes
Servlet Session Manager.LiveCount	The number of local sessions that are currently cached in memory.	
Servlet Session Manager.ActiveCount	The number of concurrently active sessions. A session is active if the WebSphere Application Server is currently processing a request that uses that session.	
Servlet Session Manager.LifeTime	The average session life time in milliseconds (time invalidated - time created)	
Servlet Session Manager.InvalidateCount	The number of sessions that were invalidated	
Servlet Session Manager.CreateCount	The number of sessions that were created	

Comments from WebContainer Team: < Any comments/suggestion?>

WebApp

PMI Counter Name	Counter Description	Type
Web Applications.URIServiceTime	The average service response time, in milliseconds, for an URI associated with a servlet.	
Web Applications.URICurrentRequests	The total number of requests processed for an URI associated with a servlet.	
Web Applications.LoadedServletCount	The number of loaded servlets	
Web Applications.ReloadCount	The number of reloaded servlets	
Web Applications.RequestCount	Total number of requests that a servlet processed	CountStatistic
Web Applications.ConcurrentRequests	The number of requests that are concurrently processed	
Web Applications.ServiceTime	The response time, in milliseconds, of a servlet request	TimeStatistic
Web Applications.ErrorCount	Total number of errors in a servlet or JavaServer Page (JSP)	
Web Applications.URIRequestCount	The total number of requests concurrently processed for an URI associated with a servlet.	

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EJB Container

PMI Counter Name	Counter Description	Type
Enterprise Beans.CreateCount	The number of times that beans were created	CountStatistic
Enterprise Beans.RemoveCount	The number of times that beans were removed	CountStatistic
Enterprise Beans.ActivateCount	The number of times that beans were activated	
Enterprise Beans.PassivateCount	The number of times that beans were passivated (entity and stateful)	
Enterprise Beans.InstantiateCount	The number of times that bean objects were instantiated	
Enterprise Beans.FreedCount	The number of times that bean objects were freed	
Enterprise Beans.LoadCount	The number of times that bean data was loaded from persistent storage	
Enterprise Beans.StoreCount	The number of times that bean data was stored in persistent storage	
Enterprise Beans.ReadyCount	The number of bean instances in ready state.	RangeStatistic
Enterprise Beans.LiveCount	The number of concurrently live beans	
Enterprise Beans.MethodCallCount	The total number of method calls	CountStatistic (High Overhead)
Enterprise Beans.MethodResponseTime	The average response time in milliseconds on the bean methods (home, remote, local)	TimeStatistic (High Overhead)
Enterprise Beans.CreateTime	The average time in milliseconds that a bean create call takes including the time for the load if any	
Enterprise Beans.RemoveTime	The average time in milliseconds that a bean entries call takes including the time at the database, if any	
Enterprise Beans.RetrieveFromPoolCount	The number of calls retrieving an object from the pool (entity and stateless)	
Enterprise Beans.ActiveMethodCount	The number of concurrently active methods - the number of methods called at the same time.	
Enterprise Beans.ReturnsToPoolCount	The number of calls returning an object to the pool (entity and stateless)	
Enterprise Beans.RetrieveFromPoolSuccessCount	The number of times that a retrieve found an object available in the pool (entity and stateless)	
Enterprise Beans.DrainsFromPoolCount	The number of times that the daemon found the pool was idle and attempted to clean it (entity and stateless)	
Enterprise Beans.ReturnsDiscardCount	The number of times that the returning object was discarded because the pool was full (entity and stateless)	
Enterprise Beans.PooledCount	The number of objects in the pool (entity and stateless)	RangeStatistic
Enterprise Beans.DrainSize	The average number of objects discarded in each drain (entity and stateless)	
Enterprise Beans.MessageBackoutCount	The number of messages that failed to be delivered to the bean onMessage method (message driven beans)	
Enterprise Beans.MessageCount	The number of messages delivered to the bean onMessage method (message driven beans)	CountStatistic
Enterprise Beans.ServerSessionPoolUsage	The percentage of the server session pool in use (message driven)	
Enterprise Beans.WaitTime	The average time to obtain a ServerSession from the pool (message-driven bean)	
Enterprise Beans.PassivationTime	The average time in milliseconds that a beanPassivate call takes including the time at the database, if any	
Enterprise Beans.ActivationTime	The average time in milliseconds that a beanActivate call takes including the time at the database, if any	
Enterprise Beans.PassiveCount	The number of beans that are in a passivated state.	CountStatistic
Enterprise Beans.MethodReadyCount	The number of bean instances in ready state.	
Enterprise Beans.LoadTime	The average time in milliseconds for loading the bean data from persistent storage (entity)	
Enterprise Beans.StoreTime	The average time in milliseconds for storing the bean data to persistent storage (entity)	

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JDBC

PMI Counter Name	Counter Description	Runtime Advisor	Type
JDBC Connection Pools.CreateCount	The total number of connections created		CountStatistic
JDBC Connection Pools.CloseCount	The total number of connections closed.		CountStatistic
JDBC Connection Pools.AllocateCount	The total number of connections allocated		
JDBC Connection Pools.ReturnCount	The total number of connections returned		
JDBC Connection Pools.PoolSize	The size of the connection pool	Advice-Yes	BoundedRangeStatistic
JDBC Connection Pools.FreePoolSize	The number of free connections in the pool (apply to 5.0 DataSource only)		BoundedRangeStatistic
JDBC Connection Pools.WaitingThreadCount	The number of threads that are currently waiting for a connection		RangeStatistic
JDBC Connection Pools.FaultCount	The total number of faults, such as timeouts, in the connection pool		
JDBC Connection Pools.PercentUsed	The average percent of the pool that is in use	Advice-Yes	RangeStatistic
JDBC Connection Pools.PercentMaxed	The average percent of the time that all connections are in use		
JDBC Connection Pools.UseTime	The average time a connection is used (apply to 5.0 DataSource only). Difference between the time at which the connection is allocated and returned. This value includes the JDBC operation time.		TimeStatistic
JDBC Connection Pools.WaitTime	The average waiting time in milliseconds until a connection is granted		TimeStatistic
JDBC Connection Pools.ManagedConnectionCount	The number of ManagedConnection objects in use for a particular connection pool (applies to V5.0 DataSource objects only)		
JDBC Connection Pools.ConnectionHandleCount	The number of Connection objects in use for a particular connection pool (apply to 5.0 DataSource only)	Advice-Yes	
JDBC Connection Pools.PrepareStmtCacheDiscardCount	The total number of statements discarded by the least recently used (LRU) algorithm of the statement cache		
JDBC Connection Pools.JDBCTime	The amount of time in milliseconds spent running in the JDBC driver which includes time spent in the JDBC driver, network, and database (apply to 5.0 DataSource only)		

Comments from JDBC Team: < Any comments/suggestion? >

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WebService

PMI Counter Name	Counter Description	Comments
Web services.RequestResponseTime	The average response time, in milliseconds, to prepare a request for dispatch	
Web services.ResponseTime	The average response time, in milliseconds, for a successful request	
Web services.ProcessedRequestCount	The number of requests the service successfully processed	
Web services.DispatchedRequestCount	The number of requests the service dispatched or delivered	
Web services.ReceivedRequestCount	The number of requests the service received	
Web services.ReplyPayloadSize	The average payload size in bytes of a reply	
Web services.RequestPayloadSize	The average payload size in bytes of a request	
Web services.PayloadSize	The average payload size in bytes of a received request or reply	
Web services.LoadedWebServiceCount	The number of loaded Web services	
Web services.ReplyResponseTime	The average response time, in milliseconds, to prepare a reply after dispatch	
Web services.DispatchResponseTime	The average response time, in milliseconds, to dispatch a request	

Comments from WebServices Team: < Any comments/suggestion?>

ThreadPool

PMI Counter Name	Counter Description	Runtime Advisor	Type
Thread_Pool.ThreadCount	The number of concurrently active threads	Advice-Yes	BoundedRangeStatistic
Thread Pools.ActiveTime	The average time in milliseconds the threads are in active state		
Thread Pools.ConcurrentHungT	The number of concurrently hung threads		
Thread Pools.ClearedThreadHa	The number of thread hangs cleared		
Thread Pools.DeclaredThreadH	The number of threads declared hung		
Thread Pools.PercentMaxed	The average percent of the time that all threads are in use		
Thread Pools.PoolSize	The average number of threads in pool	Advice-Yes	BoundedRangeStatistic
Thread Pools.DestroyCount	The total number of threads destroyed		
Thread Pools.CreateCount	The total number of threads created		

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JVM

	PMI Counter Name	Counter Description	Runtime Advisor	Type
	FreeMemory	The free memory in the JVM run time	Leak Advice-Yes	CountStatistic
	HeapSize	The total memory in the JVM run time		BoundedRangeStatistic
	ProessCpuUsage	The average percent of CPU usage since the last query	Advice-Yes	CountStatistic
	UpTime	The amount of time that the JVM is running		CountStatistic
	UsedMemory	The used memory in the JVM run time		CountStatistic
	GCCount	The number of garbage collection calls.		
	GCIntervalTime	The average garbage collection value in seconds between two garbage collections.		
	GCTime	The average duration of a garbage collection.		
	WaitsForLockCount	The number of times that a thread waits for a lock.		
	WaitForLockTime	The average time that a thread waits for a lock.		
	ThreadStartedCount	The number of threads started.		
	ThreadEndedCount	The number of failed threads		

These Counters are available with BASIC PMI Level

These counters are available only if the JVM profiler is enabled

PMI Counter Name	Counter Description	Runtime Advisor	Type
CPUUsageSinceLastMeasurement	The average system CPU utilization taken over the time interval since the last reading.		CountStatistic
CPUUsageSinceServerStarted	The average percent CPU Usage that is busy after the server is started.		BoundedRangeStatist
FreeMemory	The amount of real free memory available on the system.		CountStatistic

These Counters are available with
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Transaction Manager

PMI Counter Name	Counter Description	Type
Transaction Manager.GlobalBegunCount	The total number of global transactions started on the server	i
Transaction Manager.GlobalInvolvedCount	The total number of global transactions involved on the server (for example, begun and imported)	
Transaction Manager.LocalBegunCount	The total number of local transactions started on the server	
Transaction Manager.ActiveCount	The number of concurrently active global transactions	CountStatistic
Transaction Manager.LocalActiveCount	The number of concurrently active local transactions	
Transaction Manager.GlobalTranTime	The average duration of global transactions	
Transaction Manager.LocalTranTime	The average duration of local transactions	
Transaction Manager.GlobalBeforeCompletionTime	The average duration of before_completion for global transactions	
Transaction Manager.GlobalPrepareTime	The average duration of prepare for global transactions	
Transaction Manager.GlobalCommitTime	The average duration of commit for global transactions	
Transaction Manager.LocalBeforeCompletionTime	The average duration of before_completion for local transactions	
Transaction Manager.LocalCommitTime	The average duration of commit for local transactions	
Transaction Manager.OptimizationCount	The number of global transactions converted to single phase for optimization	
Transaction Manager.CommittedCount	The total number of global transactions committed	CountStatistic
Transaction Manager.LocalCommittedCount	The number of local transactions committed	
Transaction Manager.LocalRolledbackCount	The number of local transactions rolled back	
Transaction Manager.RolledbackCount	The total number of global transactions rolled back	CountStatistic
Transaction Manager.LocalTimeoutCount	The number of local transactions timed out	
Transaction Manager.GlobalTimeoutCount	The number of global transactions timed out	

Comments from Transaction Manager Team: < Any comments/suggestion?>

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