Firebird 2.5 Architecture Comparison				
Bold = New in Firebird 2.5				
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Analitantura	SuperServer (SS)	SuperClassic (SC)		Embedded
Architecture	Not applicable	New In 2.5	Not applicable	
Executable	fbserver	fb_inet_server -m (Windows) fb_smp_server (POSIX)	fb_inet_server	libfbembed.dll (Windows)
Process/connection model	* Single process per instance * Multiple (pooled) worker threads	same as SS	* Single process per connection * Separate worker threads for automatic sweep and Services API requests per process	Server process runs in the application address space
Cache model	Shared page and metadata cache per database	Non-shared page and metadata cache (= private per connection) per database	same as SC	same as SC
Max. cache size per database	PageSize * PageBuffers	PageSize * PageBuffers * Number of connections	calculated as in SC	calculated as in SC
Max. cache size per instance	Cache size per database * Number of databases per instance	calculated as in SS (1)	calculated as in SC (1)	calculated as in SC (1)
Max. cache size per server	Cache size per instance * Number of instances	calculated as in SS (2)	calculated as in SC (2)	calculated as in SC (2)
Utilize simultaneous connections per database to SMP	No (3)	Yes	Yes	Yes (4)
Utilize simultaneous connections for different databases to SMP	Yes	Yes	Yes	Yes
Utilize sweep to SMP	No	Yes	Yes	Yes
Utilize Services API requests to SMP	Partially (5)	Yes	Yes	Yes
Exclusive lock on database file	Yes	No	No	No (6)
Client library is thread-safe	Yes	Yes	Yes	Yes
List of attached databases/users via API	Yes	Yes	No	Yes
Cached security database connection per instance	Yes	Yes	No	Yes
Instance can be safely shutdown as a whole	Yes	Yes	No	Yes
Terminates all connections upon instance crash	Yes	Yes	No	Yes
Connection protocol used in multi-threaded applications	Any (7)	Any (7)	Any (7)	Not applicable
Targeted OS (32 vs. 64-bit)	64-bit (8)	64-bit (8)	32 / 64-bit	32 / 64-bit (8)
Configurable Port for event notification	Yes (9)	Yes (9)	Yes (9)	Yes (9)
Immediately detection of broken database connection	Yes	Yes	Yes	Yes
1) But may cache size per database can h	bighor, thus resulting in a high	l or max, cacho sizo por instance		
1) But max cache size per database can be inderer, mus resulting in a higher max cache size per initiatice as in 55				
3) Requests to the same database are serialized internally				
4) If a separate connection per thread is use	sed			
7) is a departed connection per unlead to used				
6) to First request may see below the the angle that again being sectoral Embedded connections and/or require server connection, when SC or CS is used				
7 TCP/IP. NetBeui, or local. Prior 2.5. TCP/IP was mandatory				
8) Runs fine on 32-bit as well, although the max, cache size per instance may be limited due to the 32-bit address space				
9) Via RemoteAuxPort in firebird.conf				