

SCAS Status

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Memory Leaks

- * SCAS is one process to many connections, whereas eg gatekeeper is single process per connection ... leaks accumulate across connections
- * being fixed as we find them
- * “refresh” is the workaround (a la apache)

refresh a la apache

- * SCAS “master” process is just there. No restart
- * internally, SCAS forks a slave process to handle connections. This is restarted every 300 seconds, internally by the SCAS master. No “service restart”.

Errors

- * Restart of slave each 300 sec should lead to a low-level error rate of approx 0.02%
- * Should have realized this was not the explanation when SA3/CERN measured 0.2%.
- * Problem : IO library released in wrong order during refresh - **fixed**.

Error rate now

- * Upper limit 0.001% based on tests 6 March (if I compute right)
- * The raw error rate of 0.02% is probably there, but is handled by client retries with improved strategy.
- * This is with 10 worker nodes. Multiple SCAS servers can be used (ready for test) in case we hit a limit.

Future

- * improvements in globus lib:
- * memory less leaky
- * bind to socket outside XACML lib: true Apache behavior, prelim tests show perf. scales with nr. of slaves
- * production tests of multiple SCAS at Nikhef
- * Oscar goes on holiday; multiple people know code.