ROOT

0..*

Class

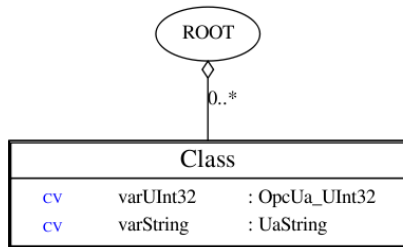| cv | varUInt32 | : OpcUa_UInt32 |
| cv | varString | : UaString |

Initial comparison of various important measures between Quasar running on backends: UaToolkit vs open62541
By Piotr Nikiel, 04-Dec-2015

Note: Design has been kept very simple, it is just 1 class with 2 cachevariables. Variable "varUInt32" is updated every 1 second (on all objects) with a random value. Test done on SLC6.6 platform.

Measure	UA Toolkit backend		open62541	
	#objects = 1	#objects = 1000	#objects = 1	#objects = 1000
Executable size after strip [kB]	3882[1]		1256	
Resident size [kB] (=RSS field of ps)	12176	13864	7244	11208
Virtual size [kB] (= VSZ field of ps)	611604	613188	192356	196192
Dirty size [kB] (= SZ field of ps)	152901	153297	48089	49048
Estimated memory cost of 1 object as in design class [kB]	1,69		3,96	
CPU consumption [%][2]	0,1	0,3	1,3	1,5
Valgrind-reported amount of allocated memory [kB] after 1 minute run	25758	135804	696198	950574

1 This doesn't include UA Toolkit stack which in UaToolkit is linked dynamically. Therefore the number will be bigger in reality for UaToolkit.
2 Only 1 0bject is subscribed to in the UaExpert!