



OpenComRTOS Layer L0 code measurements

Implementation of 27-01-2006

		Code size (bytes)		Data size (bytes)			
		mlx16x8	mlx16	Port	Packet	Task (tcb)	Task Context
MP	all services	1580	1692	6	16	22	8
	send/receive start task	1310	1374	6	16	20	8
	task mngt	1444	1536		16	22	8
SP	all services	1126	1198	6	16	22	8
	send/receive start task	850	894	6	16	20	8
	task mngt	990	1056		16	22	8

Notes:

1. This version has only "synchronous" services: the requesting tasks wait until the service has been executed and a return value is received from the kernel.
2. MP = distributed, i.e. multi-processor, version of OpenComRTOS. All services are transparent of the topology and processor independent.
3. SP = single-processor version of OpenComRTOS
4. All services: Task management services plus L0_SendPacket_W, L0_ReceivePacket_W
5. Task management services: L0_StartTask_W, L0_StopTask_W, L0_SuspendTask_W, L0_ResumeTask_W
6. MP L0_StopTask_W does not yet request clean-up of waiting packets
7. Further packing of data fields possible for Task and Packet (15-20% TBC)
8. Data size for Local Ports and Task Input Ports the same.
9. Stacksize per task configurable, **not** included in Task context above. Test cases configured 160bytes per task.
10. Data field per packet compile-time configurable; **not** included in above.