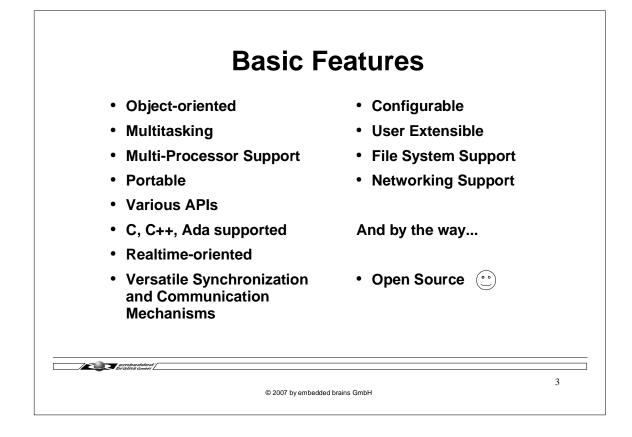
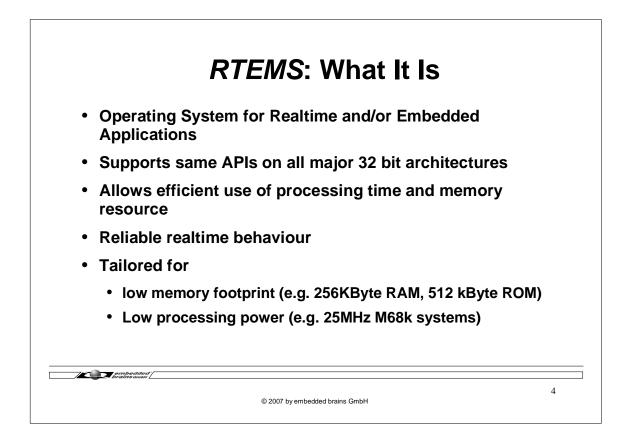
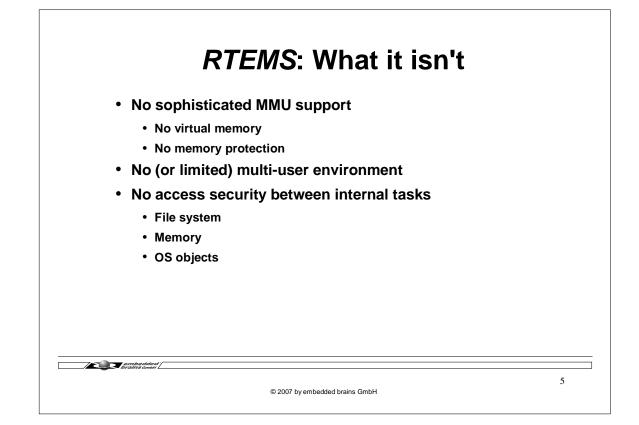
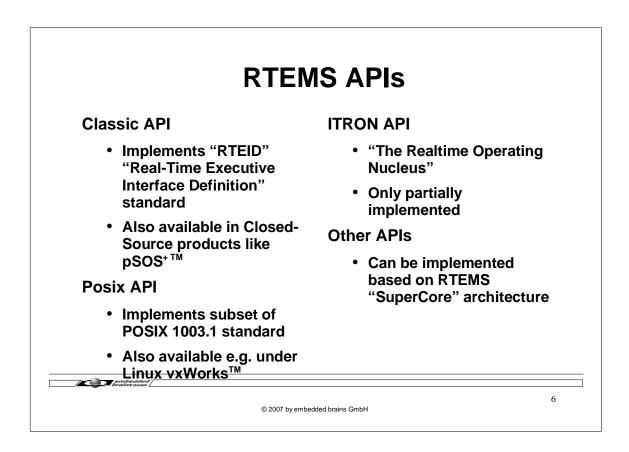


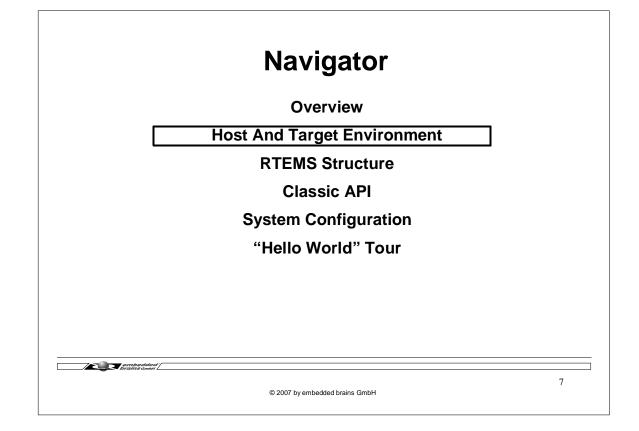
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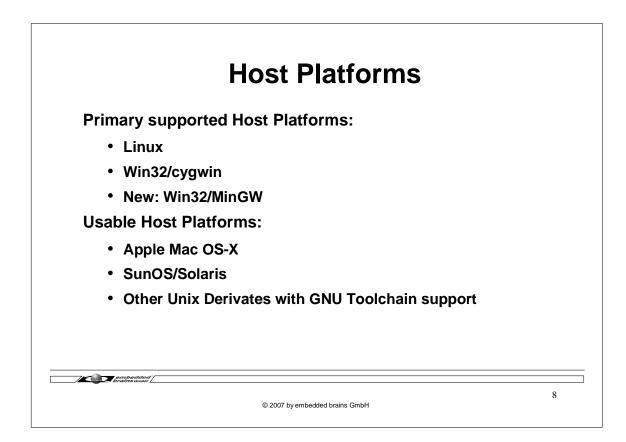


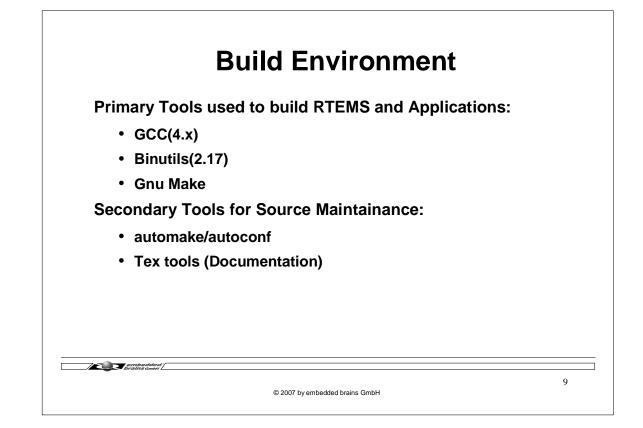


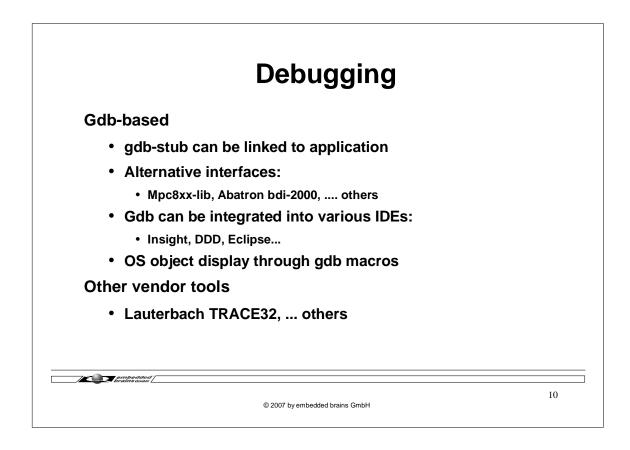


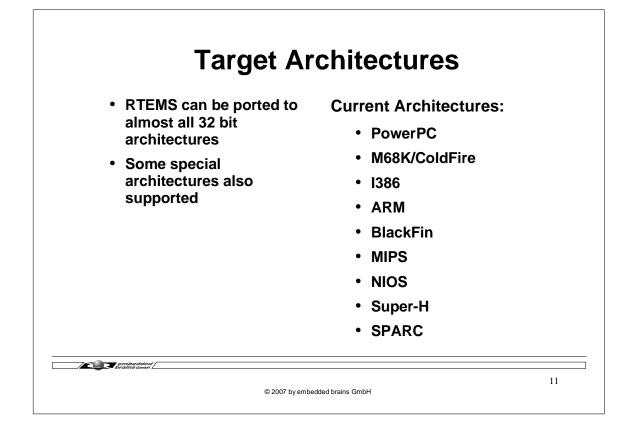












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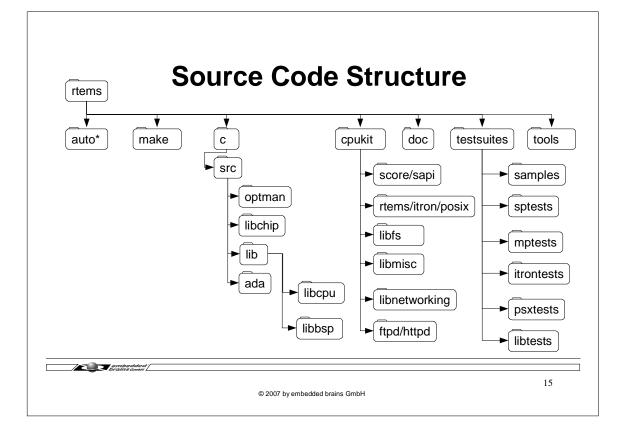
	Navigator	
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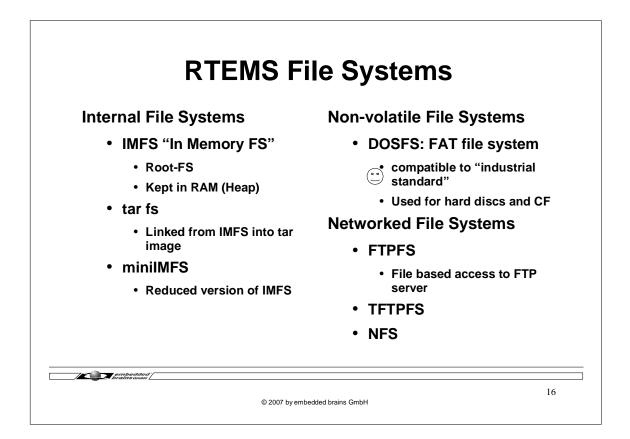
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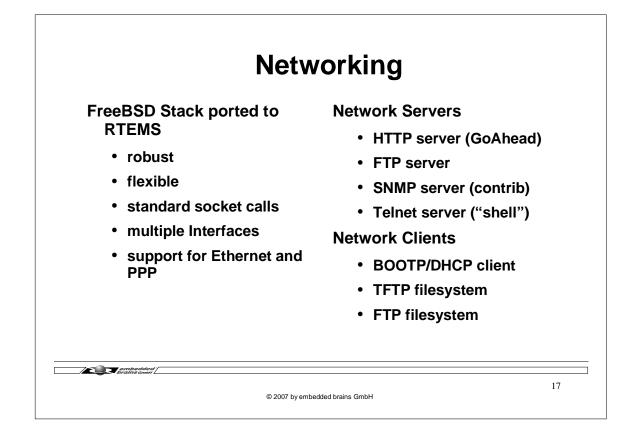
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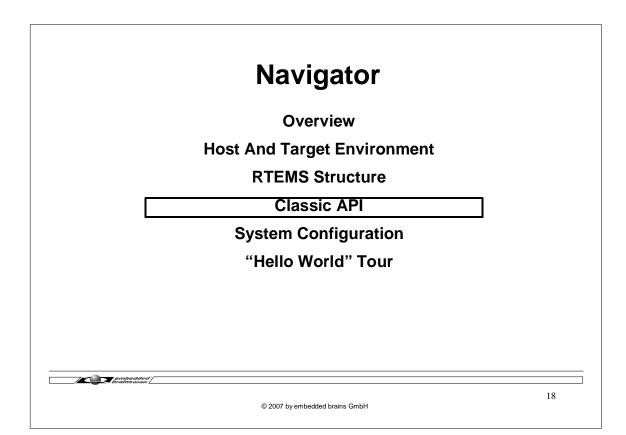
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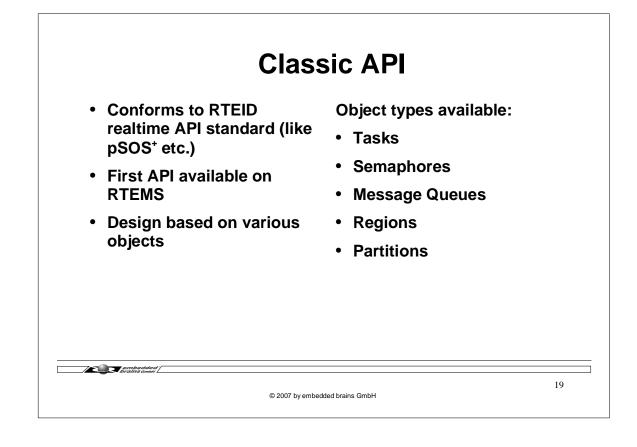
		C / C++/ADA Application	15		
	RTEID API		API Other	APIs	
ICP / IP-Stack, Ethernet, PPP, Felnet, FTP, TFTP, NFS, Websever, Chiplevel- Driver Support	Hardware Library	System API (score	Filesystem Support		WFS-/FAT-FS, kamdisk wailable for M88k/Coldfire 386 PowerPC ARM7 SPARC MIPS Hitachi SH
Many BSPs / Drivers for		Hardware		] .	. and many thers







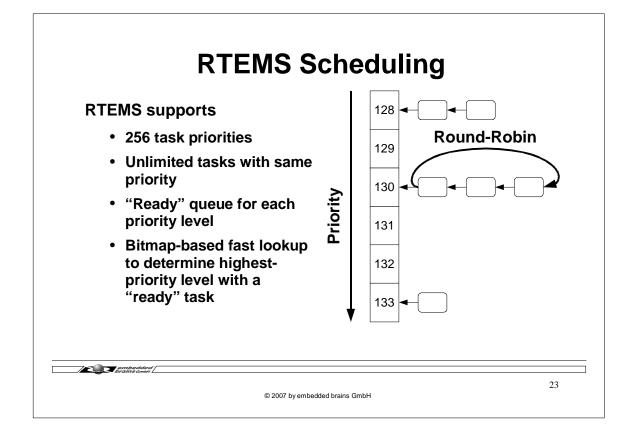


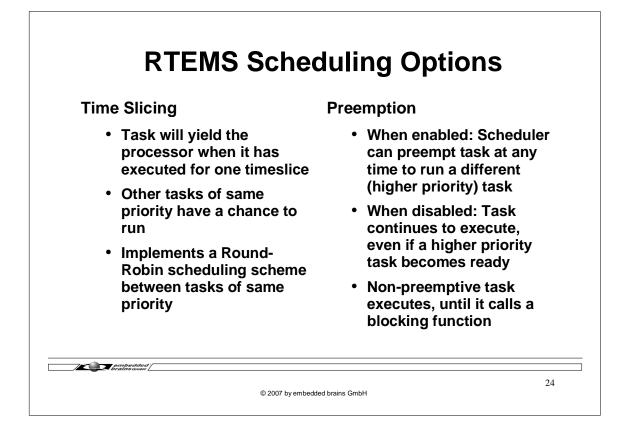


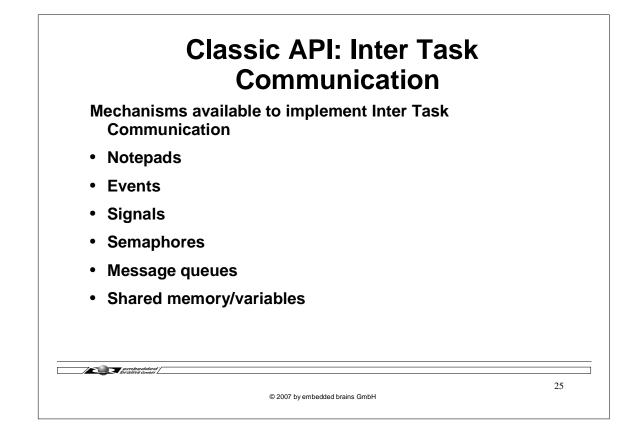
	PI: Objects		
Classic API object types:	Identification		
<ul> <li>Tasks</li> </ul>	Each object has unique		
<ul> <li>Semaphores</li> </ul>	(32 bit) identifier		
<ul> <li>Message queues</li> </ul>	ID contains:     Object type		
<ul> <li>Rate monotonic periods</li> </ul>	<ul><li>Object type</li><li>Node number</li></ul>		
Partitions	• Index		
Regions	Object ID		
AP	I ObjType Node Index		

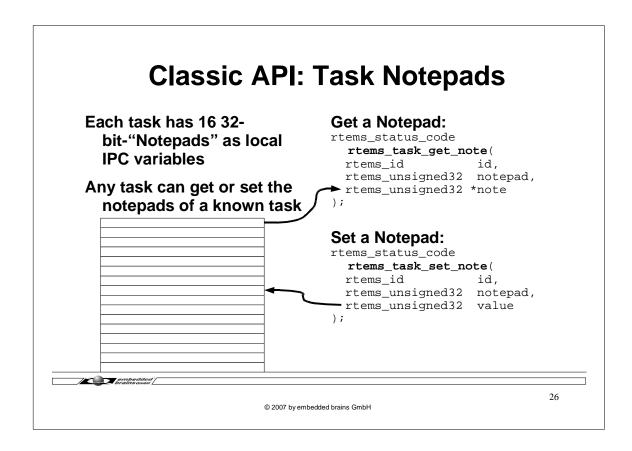
rtems_xxx_create(rtems_name name,r	tems_id *id,)
<ul> <li>Creates object of type xxx</li> </ul>	
• name: up to four ASCII characters as	arbitrary name
• *id: ptr to location, where object id w	vill be stored
rtems_xxx_delete(rtems_id *id)	
Deletes object of type xxx	
Wakes up any tasks waiting for this of	object
rtems_xxx_ident(rtems_name name,rt	ems_id *id)
Determines object id of (first) object	with given name

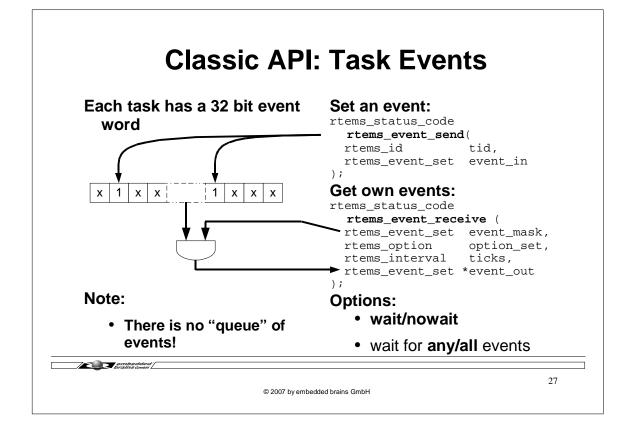
Definition	Attributes
<ul> <li>Task is a processing entity that processes and data and interacts with (OS) objects</li> <li>Multiple tasks share the processor hardware</li> <li>Scheduler decides, which task is allowed to use the processor</li> </ul>	<ul> <li>Fixed at creation time</li> <li>FPU context (yes/no)</li> <li>Stack size</li> <li>Mode options <ul> <li>Changeable during runtime</li> <li>(scheduling) priority</li> <li>Preemption</li> <li>Timeslicing</li> <li>Async. Signal Handling</li> </ul> </li> </ul>

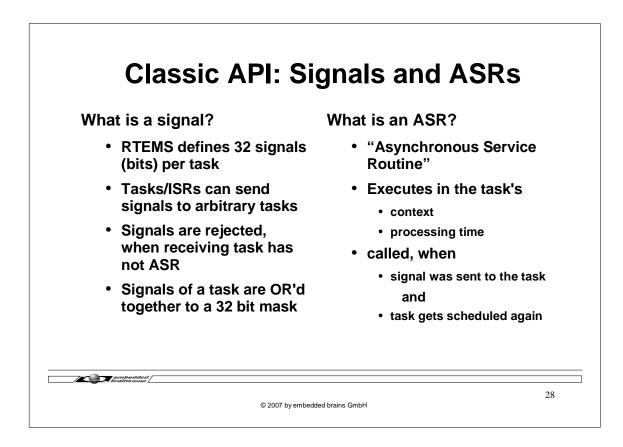


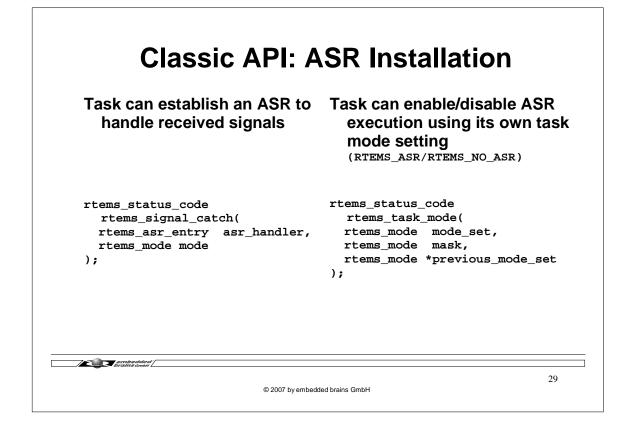


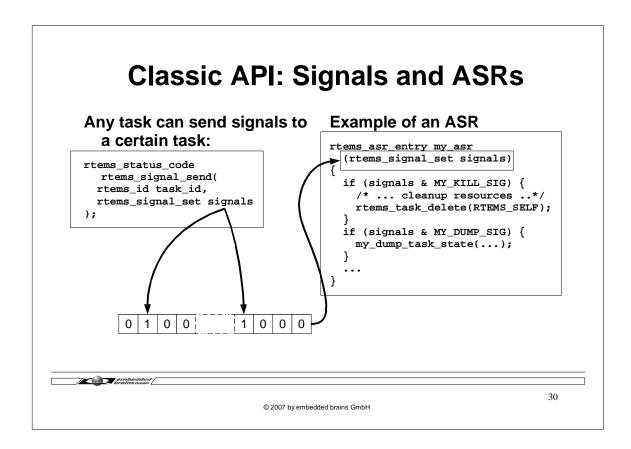


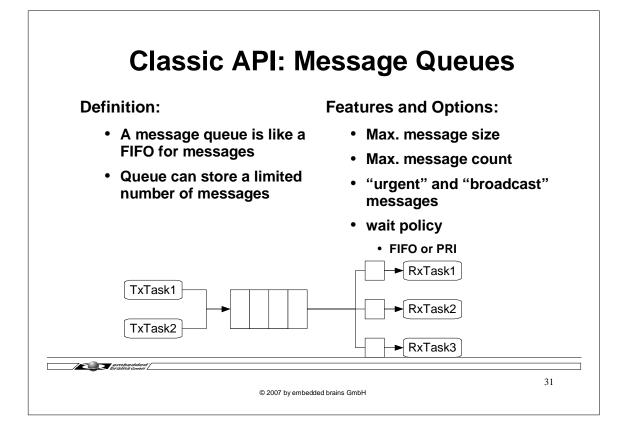


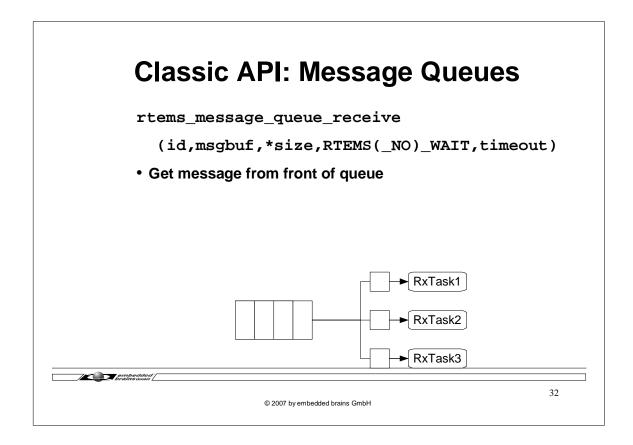


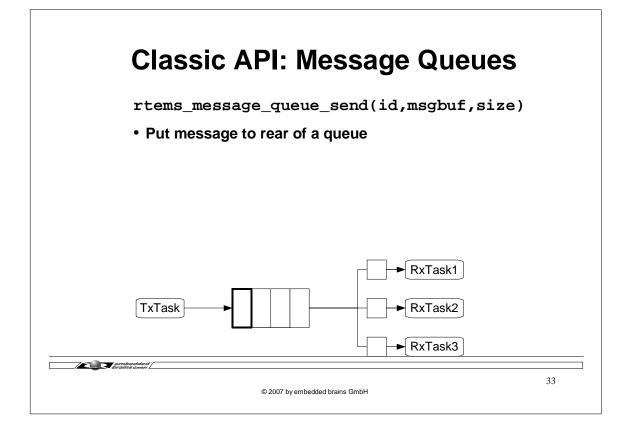


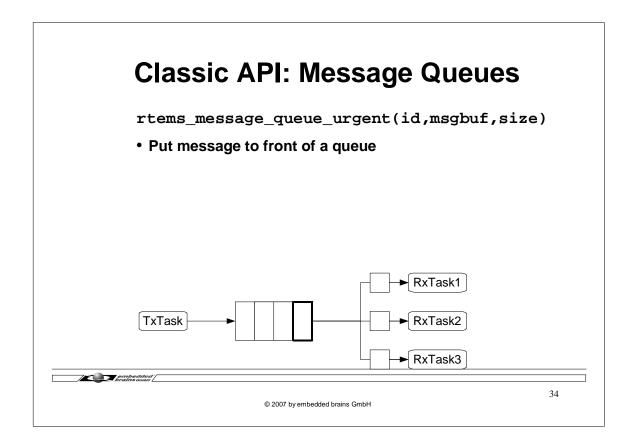


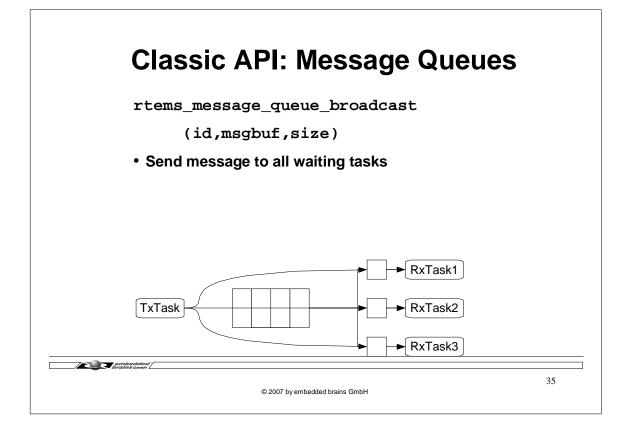


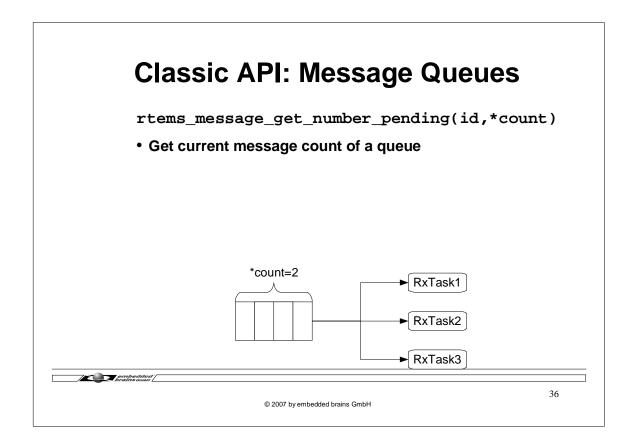


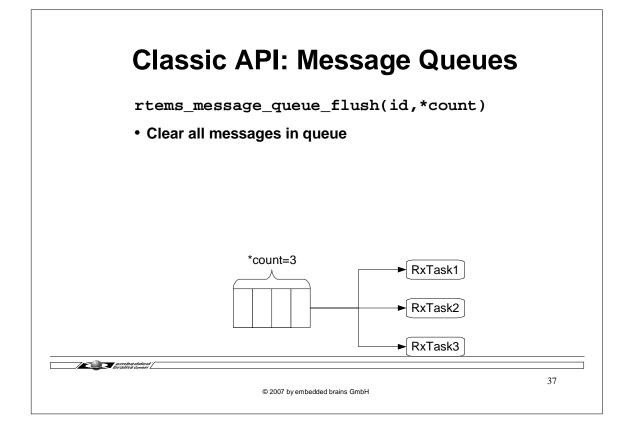


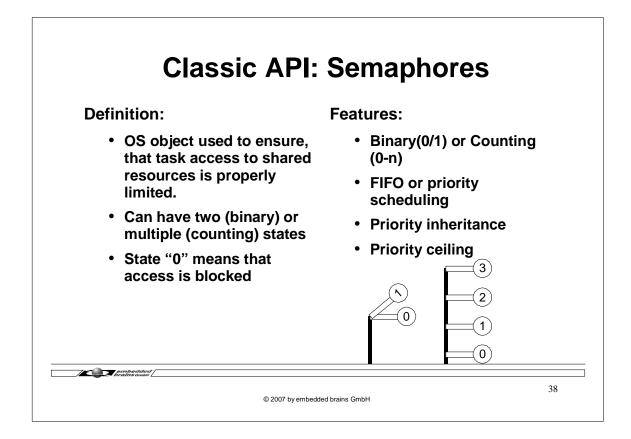


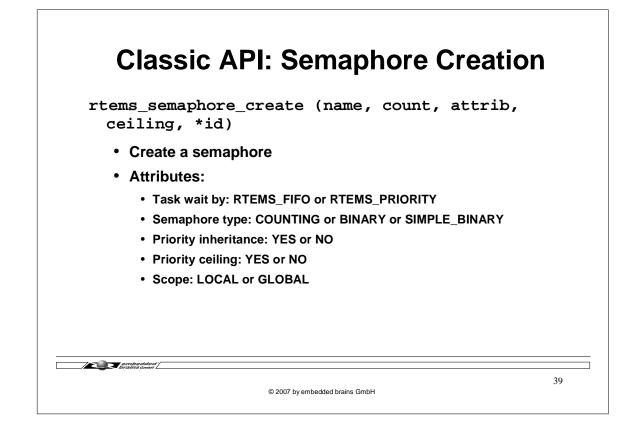


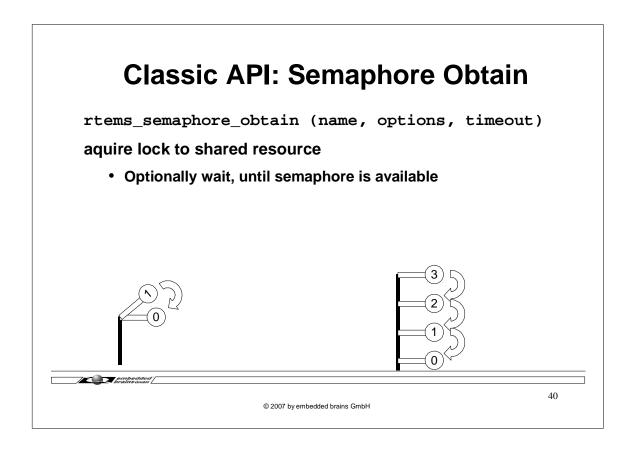


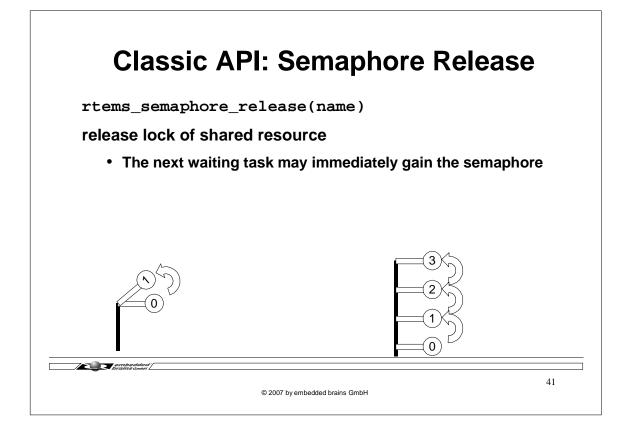


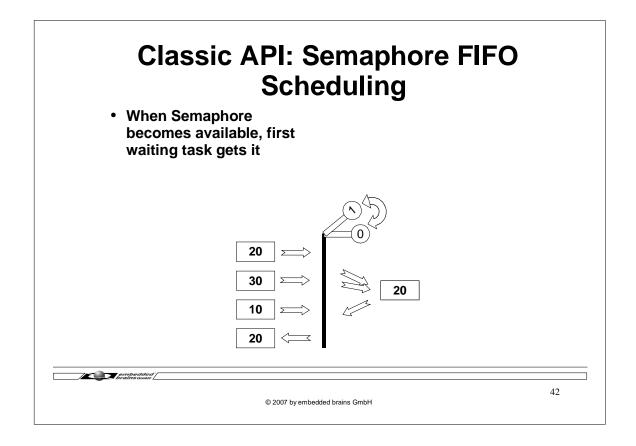


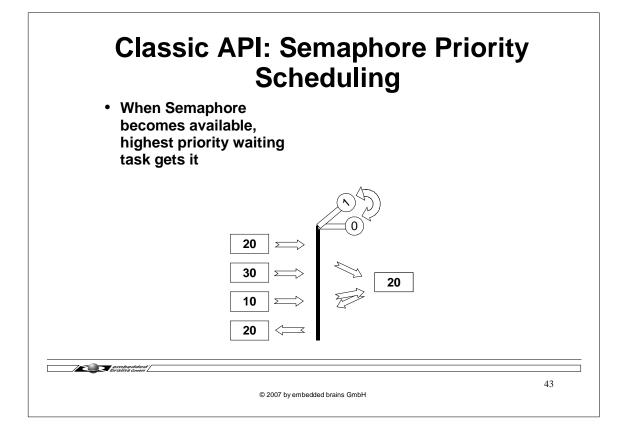


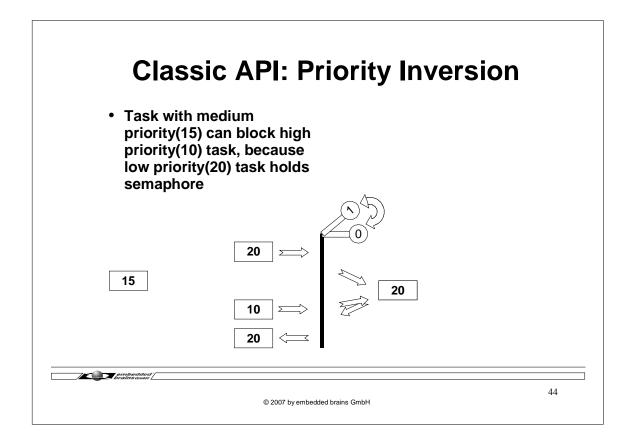


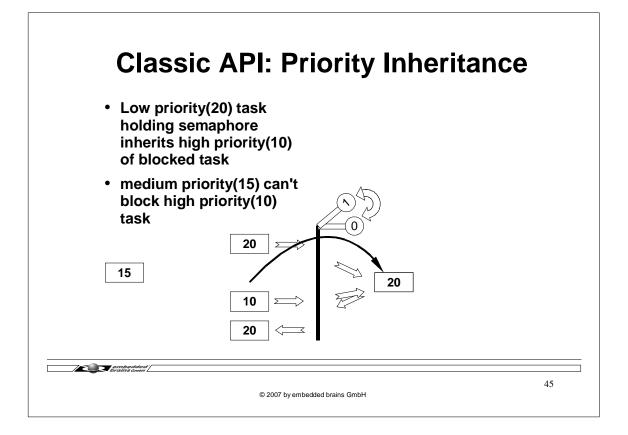


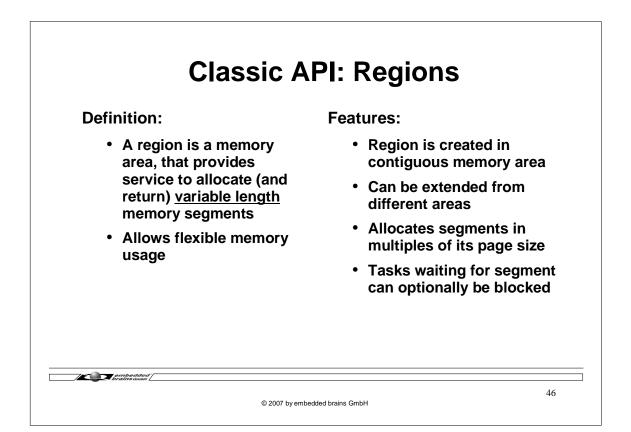


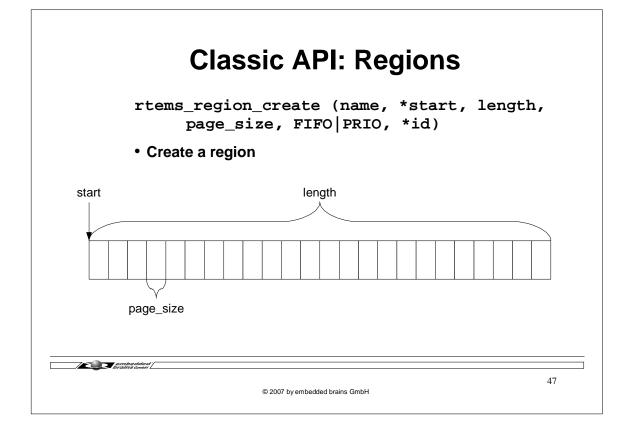




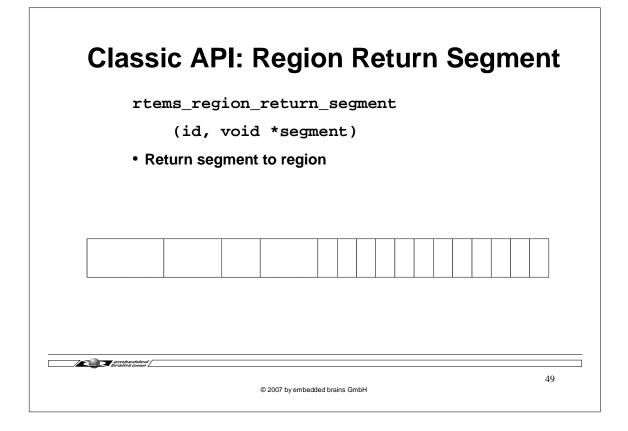


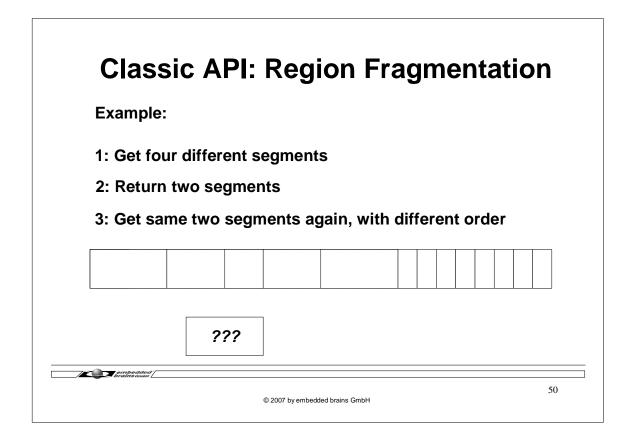


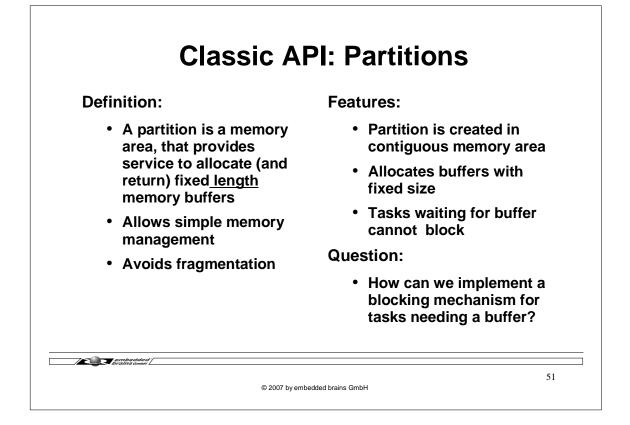


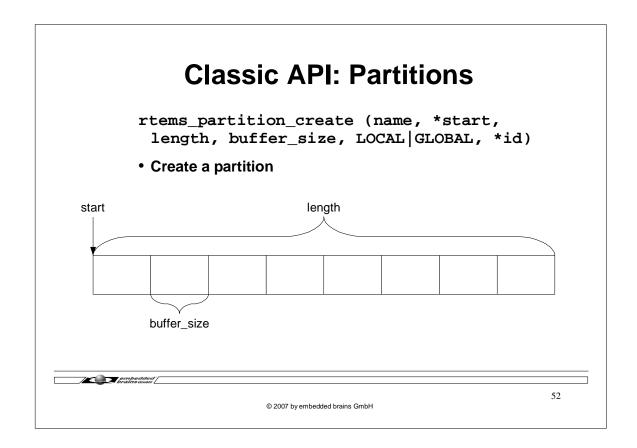


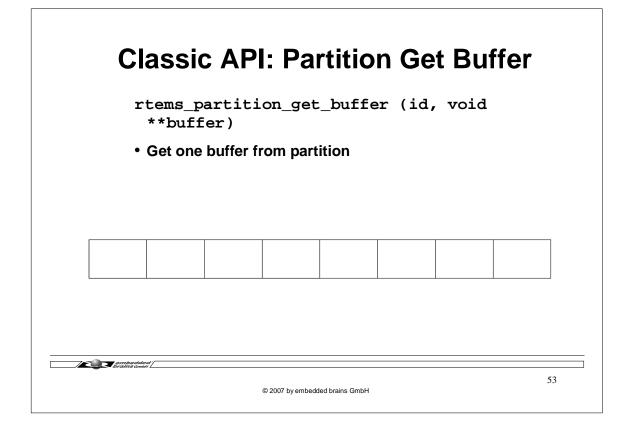
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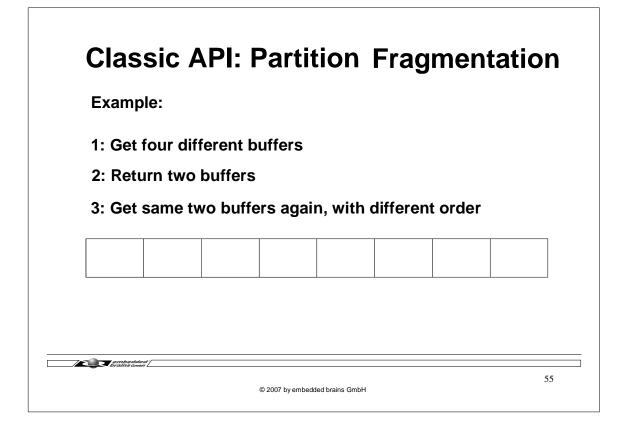


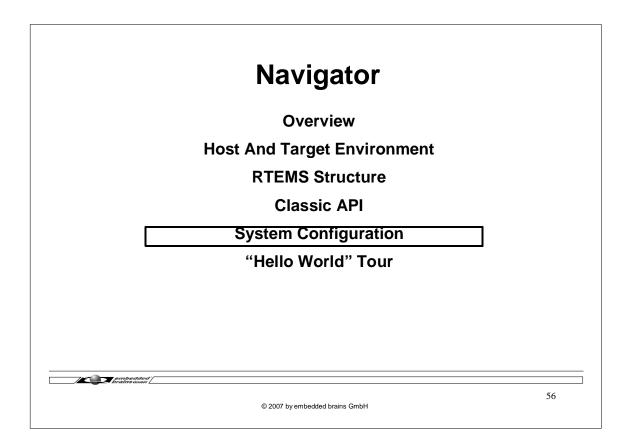


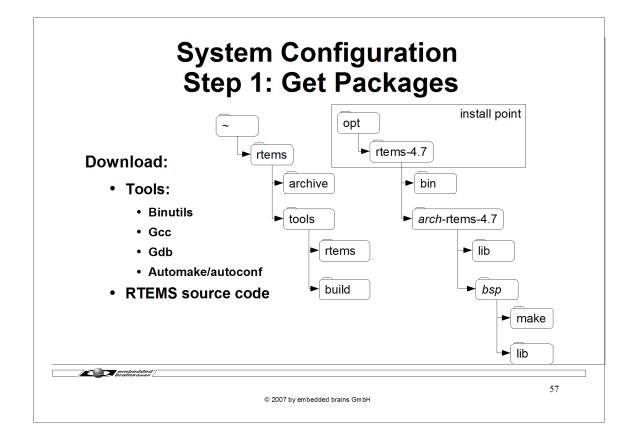


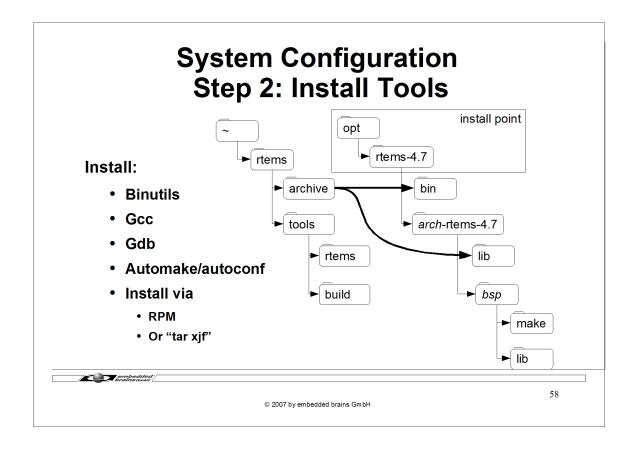


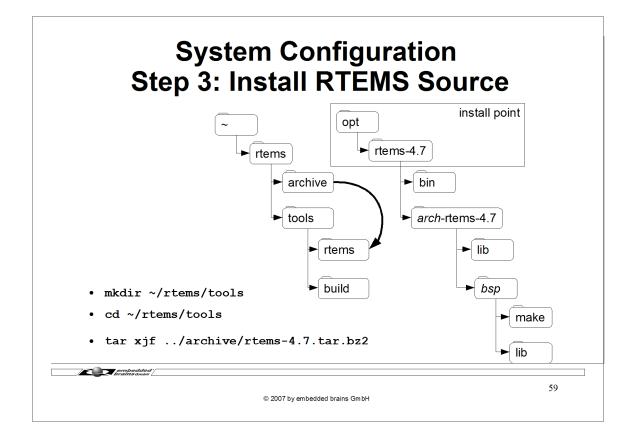
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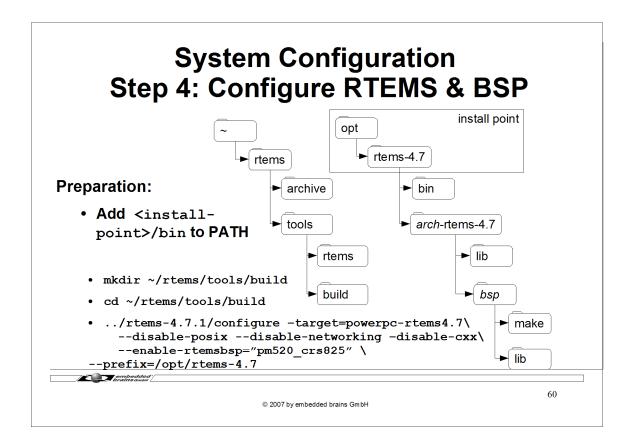


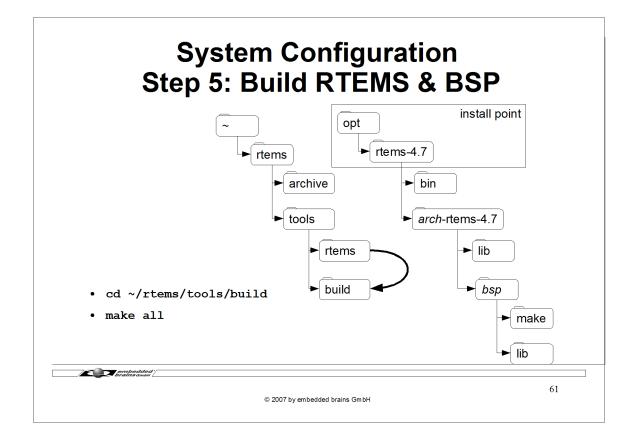


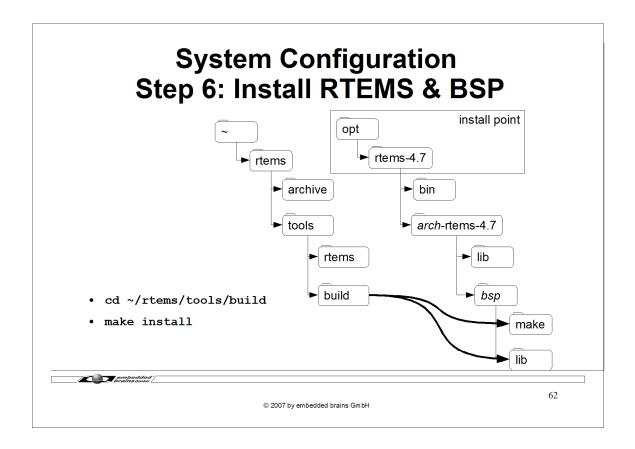




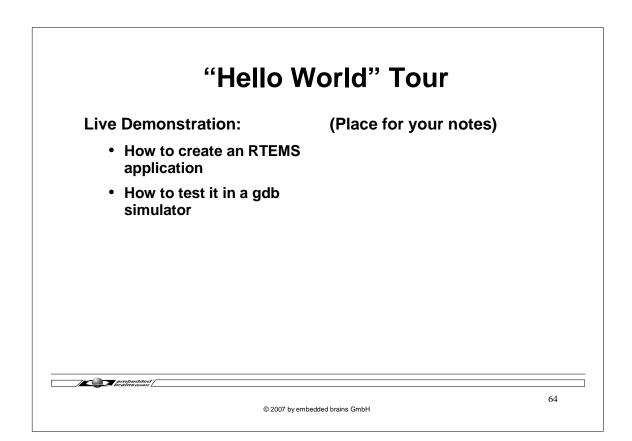


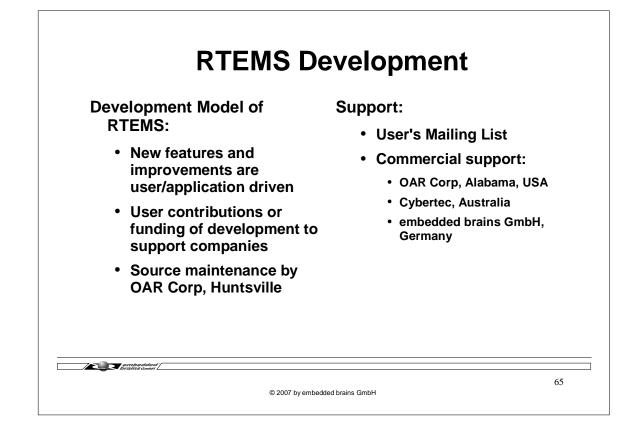


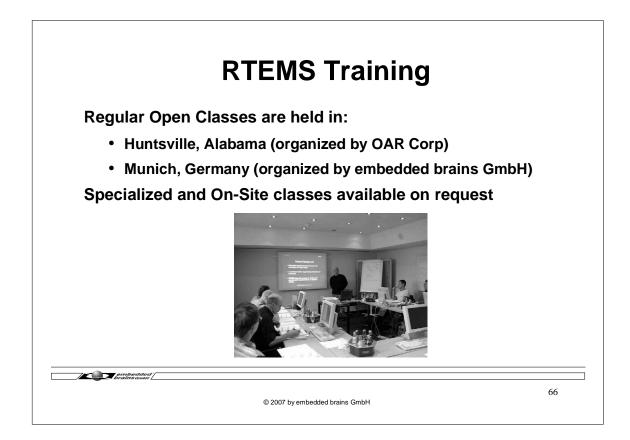


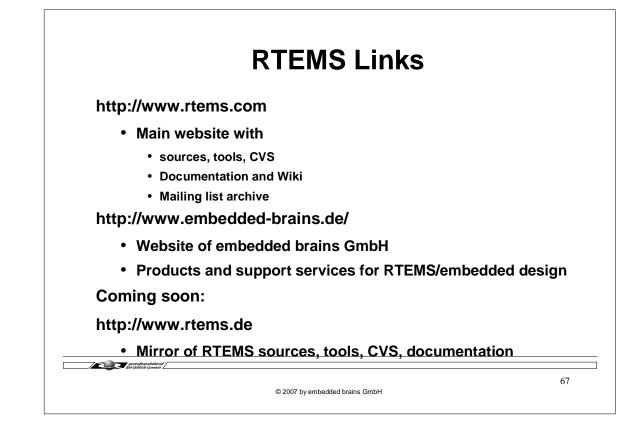


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