

pSOSystem® Classic

pSOS 4.1 rev. 3/10/1986

OS Changer® tools, hide the RTOS difference and allows developers to focus on the product development. *OS Changer* simplifies porting and also saves you from future porting efforts.

The *OS Changer* family of products gives users the freedom to switch RTOSes and greatly re-use existing code base to enable your product to get to the market faster with low development costs. These products come in the form of individual API libraries that are fully scalable and readily usable in your application. OS Changer does not require ANY modifications to the underlying operating systems.

- Port pSOS® application instantly to:
 - Linux®
 - Nucleus PLUS®
 - ThreadX®
 - Precise/MQX®
 - uITRON® and many others
- Work readily on various OS vendor supported target, tools and IDE environment
- Highly optimized for individual OS with low foot print requirement
- Royalty-free with full source-code
- Based on OS Abtractor frame-work that protects your software investment

How to use OS Changer?

- ✓ Use `oschanger.h` instead of the pSOS header files in all your source code
- ✓ Define pre-processor flag to indicate the target RTOS, Tools and other options
- ✓ Remove pSOS kernel configuration data structures definition and initialization
- ✓ Compile and link your application using appropriate development tools and include OS Changer libraries that you need for your application
- ✓ Resolve all compiler and linker errors
- ✓ Port underlying low-level drivers to target RTOS if one is not readily available
- ✓ Download the application image to the target system and let it run
- ✓ Please refer to the programming manual if you get any run time errors

PSOS Classic API supported can be found in the table on the next page ...

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Table - Supported pSOS Classic API's

pSOS™ Classic API	Support	Notes
activate_p	Yes	
delete_p	Yes	
ident_p	Yes	
mode_p	Yes	
pause_p	Yes	
priority_p	Yes	
resume_p	Yes	
spawn_p	Yes	
super_p	Yes	Left for compatibility. Does not change the mode.
suspend_p	Yes	
attach_x	Yes	The parameter count of waiting tasks always return '-1'
create_x	Yes	
delete_x	Yes	
jam_x	Yes	
liber_x	Yes	Supported only under some RTOS
req_x	Yes	
send_x	Yes	Does not detect if message was originally altered or not.
create_pt	No	Will be supported in future releases
delete_pt	No	Will be supported in future releases
get_buf	No	Will be supported in future releases
alloc_seg	Yes	
assign_seg	Yes	
grab_seg	Yes	
free_seg	Yes	
signal_v	Yes	
get_v	Yes	
wait_v	Yes	
announce_t	Yes	
get_t	Yes	
set_t	Yes	

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