

Peanut SYS Extension

Module 1.0.0

User Manual v1

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Introduction

This extension module for Peanut is to provide system information.

Namespace

The namespace `sys` is created by this extension. All the extension functions registered to Peanut by this module can be only called with namespace resolution `sys :` preceded.

Extension constants in namespace `sys`

Name	Description
(N/A)	

Extension Functions in namespace **sys**

getOSName()

Prototype	getOSName ()	
Description	Get the name of the operating system.	
Return Value	A string. "Linux" or "Windows".	
Parameter	N/A	
See Also		

```
#load <pxm_sys.pxm>

main()
{
    print("OS = ", sys::getOSName(), "\n");
}
```

getProcessorNum()

Prototype	getProcessorNum()	
Description	Get the number of processors on the system.	
Return Value	Number of processors.	
Parameter	N/A	
See Also		

```
#load <pxm_sys.pxm>

main()
{
    print("OS = ", sys::getOSName(), "\n");
    print("Processors = ", sys::getProcessorNum(), "\n");
}
```

getCurLocalTimeStr()

Prototype	<code>getCurLocalTimeStr()</code> <code>getCurLocalTimeStr(nFormat)</code>	
Description	Get the current local time string with year, month, date, hour, minute, and second information.	
Return Value	A string	
Parameter	nFormat (optional)	0 = returned time string in “yyyy/mm/dd hh:mm:ss” format 1 = returned time string in “yyyy-mm-dd_hhmmss” format The default nFormat value is 0 if no argument is passed.
See Also		

```
#load <pxm_clib.pxm>

main()
{
    print("Current time = ", sys::getCurLocalTimeStr());
}
```

getCurLocalTimeStr_us()

Prototype	getCurLocalTimeStr_us()	
Description	Get the current local time string with year, month, date, hour, minute, and second information. Time resolution is 10^{-6} s. The time string format is "yy/mm/dd hh:mm:ss.ssssss".	
Return Value	A string	
Parameter	N/A	This function has no parameter.
See Also		

```
#load <pxm_clib.pxm>

main()
{
    print("Current time = ", sys::getCurLocalTimeStr_us());
}
```


getElapsedTimeStr()

Prototype	getElapsedTimeStr(etsec)	
Description	Convert the elapsed time value (etsec) into a string in format “DDd:HHh:MMm:SSs”.	
Return Value	A string	
Parameter	etsec	The elapsed time in seconds.
See Also		

```
print("Elapsed time = ", sys::getElapsedTimeStr(1024926), "\n");
```

getFileSize()

Prototype	getFileSize (fname)	
Description	Get the size of the file.	
Return Value	File size in bytes.	
Parameter	fname	The filename; a string.
See Also		

createDir()

Prototype	createDir(dirname)	
Description	Create a directory.	
Return Value	0 or 1. 0 stands for failure. 1 stands for success.	
Parameter	dirname	A string of the directory. Use '/' as the path delimiter.
See Also		

```
#load <pxm_clib.pxm>

main()
{
    var cdir = ".";
    var sdir_abc = cdir + "/dira/dirb/dirc";

    sys::createDir(sdir_abc);
    sys::createDir(cdir + "/dir1/dir2/dir3");
}
```