NAME

FileUtil

SYNOPSIS

use FileUtil;

use FileUtil qw(:all);

DESCRIPTION

FileUtil module provides the following functions:

CheckFileType, ConvertCygwinPath, ExpandFileNames, FileModificationTimeAndDate, FileSize, FormatFileSize, FormattedFileModificationTimeAndDate, GetMayaChemToolsLibDirName, GetUsageFromPod, ParseFileName

FUNCTIONS

CheckFileType

```
$Status = CheckFileType($FileName, $FileExts);
```

Based on *FileExts*, decides type of *FileName* and return 1 or 0.

ConvertCygwinPath

```
$NewPath = ConvertCygwinPath($Path);
```

Check to see whether *Path* contains any Cygwin drive specification and convert it into Windows path.

ExpandFileNames

```
@FilesList = ExpandFileNames(\@Files, $FileExts);
@FilesList = ExpandFileNames(\@Files, $FileExts, $IncludeDirName);
```

For each directory name or wild card file name in *Files*, generate all file names which correspond to the specification along with match to any extensions in *FileExts* and return an array FileList containing these file names and other names. *IncludeDirName* controls controls whether directory prefixes are included in expanded file names. Default is to always append directory name before expanded file name.

Notes:

```
. Multiple file extensions are delimited by spaces.
. Wild card, *, is supported in directory and file names along with file
  extensions.
. For a specified directory name in the files list, all the files in the
  directory are retrieved using Perl opendir function and files filtered using file
  extensions. The file names "." and ".." returned by opendir are ignored.
. For file names containing wild cards with and without any explicit file
  extension specification in the file name, all the files in the directory are retrieved
  using Perl opendir function and files filtered using file name along with any
  file extension. The file names "." and ".." returned by opendir are ignored.
```

FormattedFileModificationTimeAndDate

```
($TimeString, $DateString) =
    FormattedFileModificationTimeAndDate($FileName);
```

Returns a formatted time and date string corresponding to *FileName* modification time.

FileModificationTimeAndDate

```
($Hours, $Mins, $Secs, $DayName, $MonthName, $Month, $Year) =
    FileModificationTimeAndDate($FileName);
```

Returns file modification time and date values for specified *FileName*.

FormatFileSize

```
$FormattedSize= FormatFileSize($Size, [$Precision]);
```

Formats the file size in bytes to human readable value and returns a formatted file size string.

FileSize

```
$Size= FileSize($FileName);
```

Returns size of *FileName* in bytes

GetMayaChemToolsLibDirName

```
$MayaChemToolsLibDir = GetMayaChemToolsLibDirName();
```

Returns MayaChemTools lib directory name by parsing INC values to extract MAYACHEMTOOLS/lib directory location: first entry in INC path should contain MayaChemTools lib location.

GetUsageFromPod

```
$ScriptUsage = GetUsageFromPod($AbsoluteScriptPath);
```

Generates a ScriptUsage string from pod documentation in the script file using pod2text or perdoc.bat Perl utitities.

ParseFileName

```
($FileDir, $FileName, $FileExt) = ParseFileName($FullFileName);
```

Splits *FullFileName* into directory name, file name, and extension. FileDir is set to current directory for absent directory name in *FullFileName*. And *FileExt* is set to NULL string for *FullFileName* without any extension.

This function doesn't perform checking ragarding the presence of the directory *FileDir* and *FullFileName* and the *FullFileName* without any extension is assumed to be a file instead of a directory.

AUTHOR

Manish Sud <msud@san.rr.com>

SEE ALSO

TextUtil.pm, TimeUtil.pm

COPYRIGHT

Copyright (C) 2017 Manish Sud. All rights reserved.

This file is part of MayaChemTools.

MayaChemTools is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version.