

NAME

SysPathSubst.pm – resolve system specific paths

SYNOPSIS

```
use SysPathSubst qw( syspathsubst compact_path );
$path = syspathsubst( $delimiter, \@components, \@templates );
$path = compact_paths( $delimiter, @paths );
```

DESCRIPTION

This package will substitute components into each element in a list of path templates.

Typically **SysPathSubst** is used on networks with multiple operating system and hardware combinations where execution and library paths differ only by a system specific path component. Using this package allows one to more easily specify those paths.

FUNCTIONS

The **SysPathSubst** module has two functions available for export:

syspathsubst

```
$path = syspathsubst( $delimiter, \@components, \@templates );
@paths = syspathsubst( undef, \@components, \@templates );
```

Perform substitution in the passed paths, and return the unique subset. Uniqueness is determined by a simple string comparison, not by resolving the paths, so that if two paths resolve to the same disk location but one uses symbolic links, they will appear distinct. To avoid this, use a path template token which ensures that links are resolved.

@components is an array of components to be substituted into the paths, in the order they should be checked. @templates is an array of templates (see “Path Templates”).

If an element in @templates is itself an array, the path create by passing to **File::Spec::catdir** will be used in its place.

If called in a scalar environment, the subset is returned as a string of paths, with the paths separated by \$delimiter, otherwise it is returned as a list (and \$delimiter is ignored).

compact_paths

```
$path = compact_paths( $delimiter, @paths );
@paths = compact_paths( undef, @paths );
```

Return the unique subset of the passed paths. Uniqueness is determined by a simple string comparison, not by resolving the paths. If called in a scalar environment, the subset is returned as a string of paths, with the paths separated by \$delimiter, otherwise it is returned as a list (and \$delimiter is ignored).

If an element in @paths is itself an array, the path created by passing to **File::Spec::catdir** will be used in its place.

Path Templates

A path template is a string which can contain zero or one of a set of special tokens. The tokens indicate where in a path the system specific component will be substituted, as well as the value of two attributes, **resolvelinks** and **firstvalid**:

Token	resolvelinks	firstvalid
-----	-----	-----
%s	false	false
%p	false	false
%P	false	true
%l	true	false
%L	true	true

If **resolvelinks** is true, then after substitution any symbolic links in the path are fully resolved. This always results in an absolute path.

If **firstvalid** is true, then only the first existing path resulting from the in order substitution of the system specific components is retained.

For example, if the list of system specific components is

`c d e f`

and the existent paths are

`/a/c /a/e /a/f`

Then the path template `/a/%p` would result in a list of paths

`/a/c:/a/e:/a/f`

while the path template `/a/%P` would result in

`/a/c`

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VERSION

This documents version 2.1.25.

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