

**NAME**

**openpam\_subst** - substitute PAM item values in a string

**SYNOPSIS**

```
#include <sys/types.h>
#include <security/pam_appl.h>
#include <security/openpam.h>
```

*int*

```
openpam_subst(const pam_handle_t *pamh, char *buf, size_t *bufsize, const char *template);
```

**DESCRIPTION**

The **openpam\_subst**() function expands a string, substituting PAM item values for all occurrences of specific substitution codes. The *template* argument points to the initial string. The result is stored in the buffer pointed to by the *buf* argument; the *bufsize* argument specifies the size of that buffer. The actual size of the resulting string, including the terminating NUL character, is stored in the location pointed to by the *bufsize* argument.

If *buf* is NULL, or if the buffer is too small to hold the expanded string, *bufsize* is updated to reflect the amount of space required to hold the entire string, and **openpam\_subst**() returns PAM\_TRY\_AGAIN.

If **openpam\_subst**() fails for any other reason, the *bufsize* argument is untouched, but part of the buffer may still have been overwritten.

Substitution codes are introduced by a percent character and correspond to PAM items:

%H	Replaced by the current value of the PAM_RHOST item.
%h	Replaced by the current value of the PAM_HOST item.
%s	Replaced by the current value of the PAM_SERVICE item.
%t	Replaced by the current value of the PAM_TTY item.
%U	Replaced by the current value of the PAM_RUSER item.
%u	Replaced by the current value of the PAM_USER item.

**RETURN VALUES**

The **openpam\_subst**() function returns one of the following values:

[PAM\_SUCCESS] Success.

[PAM\_BAD\_ITEM] Unrecognized or restricted item.

[PAM\_TRY\_AGAIN]  
Try again.

### SEE ALSO

pam(3), pam\_get\_authtok(3), pam\_get\_item(3), pam\_get\_user(3), pam\_strerror(3)

### STANDARDS

The **openpam\_subst()** function is an OpenPAM extension.

### AUTHORS

The **openpam\_subst()** function and this manual page were developed by Dag-Erling Smørgrav <*des@des.no*>.