

**NAME**

`pam_debug` – PAM module to debug the PAM stack

**SYNOPSIS**

```
pam_debug.so [auth=value] [cred=value] [acct=value] [prechauthtok=value] [chauthtok=value]
               [auth=value] [open_session=value] [close_session=value]
```

**DESCRIPTION**

The `pam_debug` PAM module is intended as a debugging aide for determining how the PAM stack is operating. This module returns what its module arguments tell it to return.

**OPTIONS**

**auth=*value***

The `pam_sm_authenticate(3)` function will return *value*.

**cred=*value***

The `pam_sm_setcred(3)` function will return *value*.

**acct=*value***

The `pam_sm_acct_mgmt(3)` function will return *value*.

**prechauthtok=*value***

The `pam_sm_chauthtok(3)` function will return *value* if the `PAM_PRELIM_CHECK` flag is set.

**chauthtok=*value***

The `pam_sm_chauthtok(3)` function will return *value* if the `PAM_PRELIM_CHECK` flag is **not** set.

**open\_session=*value***

The `pam_sm_open_session(3)` function will return *value*.

**close\_session=*value***

The `pam_sm_close_session(3)` function will return *value*.

Where *value* can be one of: `success`, `open_err`, `symbol_err`, `service_err`, `system_err`, `buf_err`, `perm_denied`, `auth_err`, `cred_insufficient`, `authinfo_unavail`, `user_unknown`, `maxtries`, `new_authtok_reqd`, `acct_expired`, `session_err`, `cred_unavail`, `cred_expired`, `cred_err`, `no_module_data`, `conv_err`, `authtok_err`, `authtok_recover_err`, `authtok_lock_busy`, `authtok_disable_aging`, `try_again`, `ignore`, `abort`, `authtok_expired`, `module_unknown`, `bad_item`, `conv_again`, `incomplete`.

**MODULE TYPES PROVIDED**

All module types (**auth**, **account**, **password** and **session**) are provided.

**RETURN VALUES**

`PAM_SUCCESS`

Default return code if no other value was specified, else specified return value.

**EXAMPLES**

```
auth requisite pam_permit.so
auth [success=2 default=ok] pam_debug.so auth=perm_denied cred=success
auth [default=reset] pam_debug.so auth=success cred=perm_denied
auth [success=done default=die] pam_debug.so
auth optional pam_debug.so auth=perm_denied cred=perm_denied
auth sufficient pam_debug.so auth=success cred=success
```

**SEE ALSO**

`pam.conf(5)`, `pam.d(5)`, `pam(7)`

**AUTHOR**

`pam_debug` was written by Andrew G. Morgan <morgan@kernel.org>.