

**NAME**

`RSA_print`, `RSA_print_fp`, `DSAParams_print`, `DSAParams_print_fp`, `DSA_print`, `DSA_print_fp`, `DHparams_print`, `DHparams_print_fp` - print cryptographic parameters

**SYNOPSIS**

```
#include <openssl/rsa.h>

int RSA_print(BIO *bp, RSA *x, int offset);
int RSA_print_fp(FILE *fp, RSA *x, int offset);

#include <openssl/dsa.h>

int DSAParams_print(BIO *bp, DSA *x);
int DSAParams_print_fp(FILE *fp, DSA *x);
int DSA_print(BIO *bp, DSA *x, int offset);
int DSA_print_fp(FILE *fp, DSA *x, int offset);

#include <openssl/dh.h>

int DHparams_print(BIO *bp, DH *x);
int DHparams_print_fp(FILE *fp, DH *x);
```

**DESCRIPTION**

A human-readable hexadecimal output of the components of the RSA key, DSA parameters or key or DH parameters is printed to **bp** or **fp**.

The output lines are indented by **offset** spaces.

**RETURN VALUES**

These functions return 1 on success, 0 on error.

**SEE ALSO**

[dh\(3\)](#), [dsa\(3\)](#), [rsa\(3\)](#), [BN\\_bn2bin\(3\)](#)

**HISTORY**

`RSA_print()`, `RSA_print_fp()`, `DSA_print()`, `DSA_print_fp()`, `DH_print()`, `DH_print_fp()` are available in all versions of SSLeay and OpenSSL. `DSAParams_print()` and `DSAParams_print_fp()` were added in SSLeay 0.8.