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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'BIO\_hostserv\_priorities.3oss1' command**

**`$ man BIO_hostserv_priorities.3oss1`**

`BIO_PARSE_HOSTSERV(3oss1)`      `OpenSSL`      `BIO_PARSE_HOSTSERV(3oss1)`

### NAME

`BIO_hostserv_priorities`, `BIO_parse_hostserv` - utility routines to parse a standard host and service string

### SYNOPSIS

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

```
enum BIO_hostserv_priorities {  
    BIO_PARSE_PRIO_HOST, BIO_PARSE_PRIO_SERV  
};
```

```
int BIO_parse_hostserv(const char *hostserv, char **host, char **service,  
    enum BIO_hostserv_priorities hostserv_prio);
```

### DESCRIPTION

`BIO_parse_hostserv()` will parse the information given in `hostserv`, create strings with the hostname and service name and give those back via `host` and `service`. Those will need to be freed after they are used. `hostserv_prio` helps determine if `hostserv` shall be interpreted primarily as a hostname or a service name in ambiguous cases.

The syntax the `BIO_parse_hostserv()` recognises is:

host + ':' + service

host + ':' + '\*'

host + ':'

':' + service

'\*' + ':' + service

host

service

The host part can be a name or an IP address. If it's a IPv6 address, it MUST be enclosed in brackets, such as '[::1]'.

The service part can be a service name or its port number. A service name will be mapped to a port number using the system function `getservbyname()`.

The returned values will depend on the given `hostserv` string and `hostserv_prio`, as follows:

host + ':' + service => \*host = "host", \*service = "service"

host + ':' + '\*' => \*host = "host", \*service = NULL

host + ':' => \*host = "host", \*service = NULL

':' + service => \*host = NULL, \*service = "service"

'\*' + ':' + service => \*host = NULL, \*service = "service"

in case no ':' is present in the string, the result depends on `hostserv_prio`, as follows:

when `hostserv_prio == BIO_PARSE_PRIO_HOST`

host => \*host = "host", \*service untouched

when `hostserv_prio == BIO_PARSE_PRIO_SERV`

service => \*host untouched, \*service = "service"

## RETURN VALUES

BIO\_parse\_hostserv() returns 1 on success or 0 on error.

## SEE ALSO

BIO\_ADDRINFO(3)

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