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

**\$ man BIO\_parse\_hostserv.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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