

**NAME**

**xo\_emit**, **xo\_emit\_h**, **xo\_emit\_hv** - emit formatted output based on format string and arguments

**LIBRARY**

Text, XML, JSON, and HTML Output Emission Library (libxo, -lxo)

**SYNOPSIS**

```
#include <libxo/xo.h>
```

```
xo_ssize_t
```

```
xo_emit(const char *fmt, ...);
```

```
xo_ssize_t
```

```
xo_emit_h(xo_handle_t *xop, const char *fmt, ...);
```

```
xo_ssize_t
```

```
xo_emit_hv(xo_handle_t *xop, const char *fmt, va_list vap);
```

**DESCRIPTION**

The **xo\_emit**() function emits formatted output using the description in a format string along with a set of zero or more arguments, in a style similar to **printf**(3) but using a more complex format description string, as described in **xo\_format**(5).

**xo\_emit**() uses the default output handle, as described in **libxo**(3), where **xo\_emit\_h**() uses an explicit handle. **xo\_emit\_hv**() accepts a *va\_list* for additional flexibility.

**EXAMPLES**

In this example, a set of four values is emitted using the following source code:

```
xo_emit(" {:lines/%7ju} {:words/%7ju} "
        "{:characters/%7ju} {d:filename/%s}\n",
        linect, wordct, charct, file);
```

Output can then be generated in various style, using the "--libxo" option:

```
% wc /etc/motd
 25  165  1140 /etc/motd
% wc --libxo xml,pretty,warn /etc/motd
<wc>
<file>
<lines>25</lines>
```

```

    <words>165</words>
    <characters>1140</characters>
    <filename>/etc/motd</filename>
</file>
</wc>
% wc --libxo json,pretty,warn /etc/motd
{
  "wc": {
    "file": [
      {
        "lines": 25,
        "words": 165,
        "characters": 1140,
        "filename": "/etc/motd"
      }
    ]
  }
}
% wc --libxo html,pretty,warn /etc/motd
<div class="line">
  <div class="text"> </div>
  <div class="data" data-tag="lines"> 25</div>
  <div class="text"> </div>
  <div class="data" data-tag="words"> 165</div>
  <div class="text"> </div>
  <div class="data" data-tag="characters"> 1140</div>
  <div class="text"> </div>
  <div class="data" data-tag="filename">/etc/motd</div>
</div>

```

## RETURN CODE

**xo\_emit** returns a negative value on error. If the **XOF\_COLUMNS** flag has been turned on for the specific handle using **xo\_set\_flags(3)**, then the number of display columns consumed by the output will be returned.

## SEE ALSO

**xo\_open\_container(3)**, **xo\_open\_list(3)**, **xo\_emit\_f(3)**, **xo\_emit\_field 3**, **xo\_format(5)**, **libxo(3)**

## HISTORY

The **libxo** library first appeared in FreeBSD 11.0.

**AUTHORS**

**libxo** was written by Phil Shafer <*phil@freebsd.org*>.