NAME

ckrange, errange, helprange, valrange – prompts for and validates an integer

SYNOPSIS

ckrange [–**Q**] [–**W** *width*] [–**l** *lower*] [–**u** *upper*] [–**b** *base*] [–**d** *default*] [–**h** *help*] [–**e** *error*] [–**p** *prompt*] [–**k** *pid* [–**s** *signal*]]

/usr/sadm/bin/errange [–**W** *width*] [–**e** *error*] [–**l** *lower*] [–**u** *upper*] [–**b** *base*]

/usr/sadm/bin/helprange [–**W** *width*] [–**h** *help*] [–**l** *lower*] [–**u** *upper*] [–**b** *base*]

/usr/sadm/bin/valrange [–**l** *lower*] [–**u** *upper*] [–**b** *base*] *input*

AVAILABILITY

SUNWcsu

DESCRIPTION

ckrange prompts a user for an integer between a specified range and determines whether this response is valid. It defines, among other things, a prompt message whose response should be an integer in the range specified, text for help and error messages, and a default value (which is returned if the user responds with a RETURN).

This command also defines a range for valid input. If either the lower or upper limit is left undefined, then the range is bounded on only one end.

All messages are limited in length to 79 characters and are formatted automatically. Tabs and newlines are removed after a single whitespace character in a message definition, but spaces are not removed. When a tilde is placed at the beginning or end of a message definition, the default text will be inserted at that point, allowing both custom text and the default text to be displayed.

If the prompt, help or error message is not defined, the default message (as defined under **EXAMPLES**) is displayed.

Three visual tool modules are linked to the **ckrange** command. They are **errange** (which formats and displays an error message on the standard output), **helprange** (which formats and displays a help message on the standard output), and **valrange** (which validates a response). These modules should be used in conjunction with Framed Access Command Environment (FACE) objects. In this instance, the FACE object defines the prompt.

Note: Negative "input" arguments confuse **getopt** in **valrange**. By inserting a "--" before the argument, **getopt** processing will stop. See **getopt**(1) and **intro**(1) about **getopt** parameter handling. **getopt** is used to parse positional parameters and to check for legal options.

OPTIONS

–**Q**	Specifies that quit will not be allowed as a valid response.
–**W** *width*	Specifies that prompt, help and error messages will be formatted to a line length of *width*.
–**l** *lower*	Defines the lower limit of the range as *lower*. Default is the machine's largest negative long.

–**u** *upper*	Defines the upper limit of the range as *upper*. Default is the machine's largest positive long.
–**b** *base*	Defines the base for input. Must be 2 to 36, default is 10. Base conversion uses **strtol**(3C). Output is always base 10.
–**d** *default*	Defines the default value as *default*. *default* is converted using **strtol**(3C) in the desired base. Any characters invalid in the specified base will terminate the **strtol** conversion without error.
–**h** *help*	Defines the help message as *help*.
–**e** *error*	Defines the error message as *error*.
–**p** *prompt*	Defines the prompt message as *prompt*.
–**k** *pid*	Specifies that process ID *pid* is to be sent a signal if the user chooses to quit.
–**s** *signal*	Specifies that the process ID *pid* defined with the –**k** option is to be sent signal *signal* when quit is chosen. If no signal is specified, **SIGTERM** is used.
input	Input to be verified against upper and lower limits and base.

EXIT CODES

0	Successful execution
1	EOF on input, or negative width on –**W** option, or usage error
2	Usage error
3	User termination (quit)

EXAMPLES

The default base 10 prompt for **ckrange** is:

example% ckrange
Enter an integer between *lower_bound* **and**
upper_bound **[***lower_bound***–***upper_bound***,?,q]:**

The default base 10 error message is:

example% /usr/sadm/bin/errange
ERROR: Please enter an integer between *lower_bound* **and** *upper_bound***.**

The default base 10 help message is:

example% /usr/sadm/bin/helprange
Please enter an integer between *lower_bound* **and** *upper_bound***.**

The messages are changed from ''integer'' to ''base *base* integer'' if the base is set to a number other than 10, for example, **example% /usr/sadm/bin/helprange –b 36**.

When the quit option is chosen (and allowed), **q** is returned along with the return code **3**. Quit input gets a trailing newline.

The **valrange** module will produce a usage message on stderr. It returns **0** for success and non-zero for failure.

```
example% /usr/sadm/bin/valrange
usage: valrange [–l lower] [–u upper] [–b base] input
```

SEE ALSO

intro(1), **face**(1), **getopt**(1), **strtol**(3C), **signal**(5)