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function

system

<cstdlib>

```
int system (const char* command);
```

Execute system command

Invokes the command processor to execute a *command*.

If *command* is a *null pointer*, the function only checks whether a *command processor* is available through this function, without invoking any command.

The effects of invoking a command depend on the system and library implementation, and may cause a program to behave in a non-standard manner or to terminate.

Parameters

command
    C-string containing the system command to be executed.
    Or, alternatively, a *null pointer*, to check for a command processor.

Return Value

If *command* is a null pointer, the function returns a non-zero value in case a *command processor* is available and a zero value if it is not.

If *command* is not a null pointer, the value returned depends on the system and library implementations, but it is generally expected to be the status code returned by the called command, if supported.

Example

```
1   /* system example : DIR */
2   #include <stdio.h>        /* printf */
3   #include <stdlib.h>       /* system, NULL, EXIT_FAILURE */
4
5   int main ()
6   {
7     int i;
8     printf ("Checking if processor is available...");
9     if (system(NULL)) puts ("Ok");
10      else exit (EXIT_FAILURE);
11    printf ("Executing command DIR...\n");
12    i=system ("dir");
13    printf ("The value returned was: %d.\n",i);
14    return 0;
15  }
```

Data races

The function accesses the array pointed by *command*.
Concurrently calling this function with a *null pointer* as argument is safe. Otherwise, it depends on the system and library implementation.

Exceptions (C++)

No-throw guarantee: this function does not throw exceptions.

If *command* is not a *null pointer*, it causes *undefined behavior*.

See also

exit	Terminate calling process (function)
getenv	Get environment string (function)

_Exit
functions (non-standard):
itoa
types:
div_t
ldiv_t
lldiv_t
size_t
macro constants:
EXIT_FAILURE
EXIT_SUCCESS
MB_CUR_MAX
NULL
RAND_MAX

hotjar   All-in-one Web
          Analytics