

Signal Processing (Signal Handling) in C ++

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There are signals that cannot be captured by the program, but there are also signals that you can capture in your program, and can perform appropriate actions based on that signal. These signals are defined in the Header file of C ++.

SignalDescription
SIGABRT Abnormal termination of the program, for example a call to **abort**
SIGFPE An arithmetic operation is not correct, such as dividing by zero or an overflow operation
SIGILL Detecting a thread
SIGINT invalid command Receiving an
SIGSEGV interactive signal An invalid access to storage
SIGTERM An end request is sent to the program

Function signal () in C ++

The signal processing library in C ++ provides a signal function to trap unexpected events. Here is the syntax of the signal () function in C ++:

```
void (*signal (int sig, void (*func)(int)))(int);
```

This function takes two parameters: the first parameter is an integer that represents the signal number and the second parameter is a pointer to the signal processing function.

Now, write a simple C ++ program to catch the SIGINT signal using the signal () function in C ++. Whatever signal you want to catch in the program, you must write that signal using the signal function and link it to a Signal Handler. You consider the example:

```
#include <signal.h> #include <string.h> using namespace std; void signalHandler( int tinhieuso ) { cout << "Signal received: " << tinhieuso << endl; }
```

Compiling and running the above C ++ program will produce the following results:

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