

## Base Language - Bug #7073

### Launching non-interactive program creates JNI core dump in process\_linux.c due to ncurses

01/24/2023 06:50 PM - Roger Borrello

<b>Status:</b>	New	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>case_num:</b>	
<b>billable:</b>	No		
<b>vendor_id:</b>	GCD		
<b>Description</b>			

#### History

##### #1 - 01/24/2023 06:56 PM - Roger Borrello

- File 6663\_windows\_open\_edge\_testcase.png added
- File hs\_err\_pid453116.log added
- File process\_launch\_helper.p added

uast/util/process\_launch\_helper.p can be used.

Using Swing, run the program, and pass in any command, like **ls**

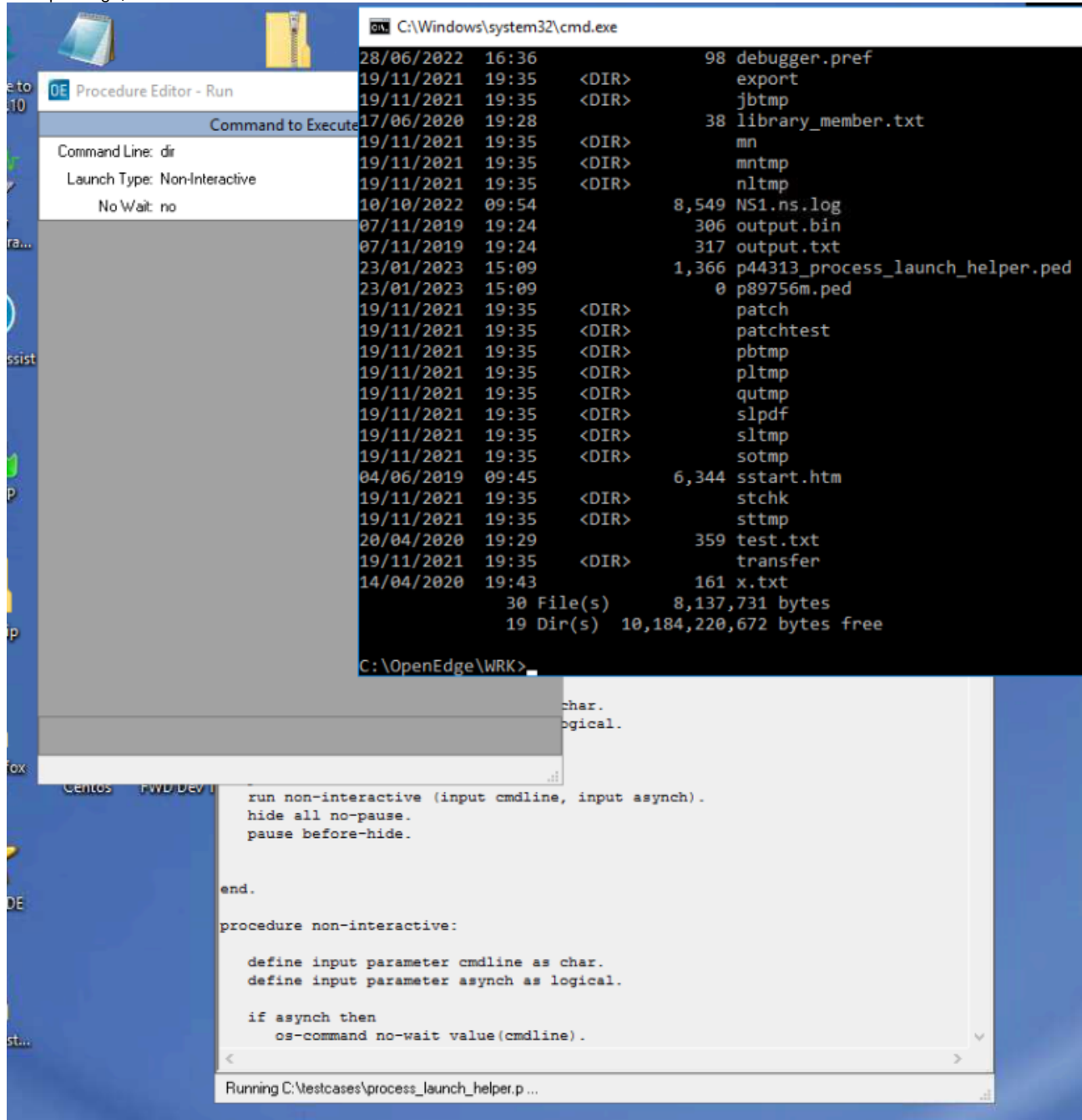
Output:

```
adecomm.pl                client-terminal.sh        frame_title_color_default_values.txt  man_on_mo
on.png                    test-gui.txt
a.txt                    client-terminal.xml        go_suite.txt                        menu_title_color_attr
ibutes.txt                test-keep.txt
bms-medium.ini           client.xml                 images                               mn                               te
st.txt
browse_title_color_default_values.txt  default_server.cer        img-dis1.png                        mobGetVersi
onTest.out                trusted-cert.store
can_qset_test1.ini       default_server.store      img-dis.png                          person.d
widget-hierarchy.txt
client_rfb_453027.log     default_server.store.old  img-down.png                          popup_me
nu_title_color_attributes-gui.txt  x-1.txt
client_rfb_453116.log     default_server.store.old2  img.png                               popup_menu_title
_color_attributes.txt      x.txt
client.sh                frame_loc_attributes_get2-1.txt  img-up.png                            rfbfile.txt
client-swing.cmd         frame_title_color_default_values-chui.txt  library_member.txt                    run1.t
xt
client-terminal.cmd      frame_title_color_default_values-gui.txt  list-item.txt                          ster
ling.txt
#
# A fatal error has been detected by the Java Runtime Environment:
#
# SIGSEGV (0xb) at pc=0x00007fb7b8613717, pid=453116, tid=0x00007fb7b72f7700
#
# JRE version: OpenJDK Runtime Environment (8.0_352-b08) (build 1.8.0_352-8u352-ga-1~20.04-b08)
# Java VM: OpenJDK 64-Bit Server VM (25.352-b08 mixed mode linux-amd64 compressed oops)
# Problematic frame:
# C [libc.so.6+0x188717]
#
# Failed to write core dump. Core dumps have been disabled. To enable core dumping, try "ulimit -c unlimited"
before starting Java again
#
# An error report file with more information is saved as:
# /home/rfb/projects/VirtualBox-VMs/shared/projects/testcases/deploy/client/hs_err_pid453116.log
#
```

```
# If you would like to submit a bug report, please visit:
# http://bugreport.java.com/bugreport/crash.jsp
# The crash happened outside the Java Virtual Machine in native code.
# See problematic frame for where to report the bug.
#
Aborted (core dumped)
```

Hotspot log attached, as well.

On OpenEdge, it works fine:



## #2 - 01/24/2023 06:57 PM - Roger Borrello

With logging added to process\_linux.c we see it occur in `fprintf(fp, "pseudoTerminalWait: move cursor part 2, tigetstr(cup)=%s\n", tigetstr("cup"));`

```
if (!silent)
{
    // in interactive mode we're calling functions in NCURSES directly,
    // as opposed to executing command line utilities for the same purpose
    // (NCURSES library is a requirement anyway so we want to have a more
    // efficient and more controlled use of that interface as well, while
    // also avoiding the hard requirement that other utility programs be
    // installed in addition to P2J)

    // put "Press space bar to continue." message on the last line

    // move cursor to the beginning of the last terminal line
    fp=fopen("/tmp/native.txt", "a+");
    fprintf(fp, "pseudoTerminalWait: move cursor part 1\n");
    fprintf(fp, "pseudoTerminalWait: move cursor part 2, tigetstr(cup)=%s\n", tigetstr("cup"));
    fprintf(fp, "pseudoTerminalWait: move cursor part 3, tigetnum(lines)=%d\n", tigetnum("lines"));
    fclose(fp);
    char *s;
    s = tparm(tigetstr("cup"), tigetnum("lines"), 0, 0, 0, 0, 0, 0, 0, 0);
    putp(s);

    // display prompt
    fp=fopen("/tmp/native.txt", "a+");
    fprintf(fp, "pseudoTerminalWait: display prompt\n");
    fclose(fp);
    printf("Press space bar to continue.");

    // move cursor to the end of the last terminal line (as in Progress)
    fp=fopen("/tmp/native.txt", "a+");
    fprintf(fp, "pseudoTerminalWait: move to end of last line\n");
    fclose(fp);
    s = tparm(tigetstr("cup"), tigetnum("lines"), tigetnum("cols"),
              0, 0, 0, 0, 0, 0, 0);
    putp(s);
}
```

### #3 - 01/24/2023 07:29 PM - Greg Shah

- Status changed from New to Rejected
- % Done changed from 0 to 100

That failing code is not code that is checked in to trunk. It is specific to **your system**. Your logging is broken.

### #4 - 01/24/2023 11:25 PM - Roger Borrello

- File `hs_err_pid471694.log` added

Greg Shah wrote:

That failing code is not code that is checked in to trunk. It is specific to **your system**. Your logging is broken.

It was failing before my logging entries. It broke with this logging:

```
// move cursor to the beginning of the last terminal line
fp=fopen("/tmp/native.txt", "a+");
fprintf(fp, "pseudoTerminalWait: move cursor part\n");
fclose(fp);
char *s;
s = tparm(tigetstr("cup"), tigetnum("lines"), 0, 0, 0, 0, 0, 0, 0, 0); // <---- this was there it broke
putp(s);
```

I just tested with trunk:

```
#
# A fatal error has been detected by the Java Runtime Environment:
#
# SIGSEGV (0xb) at pc=0x00007fba97557717, pid=471694, tid=0x00007fba9623b700
#
# JRE version: OpenJDK Runtime Environment (8.0_352-b08) (build 1.8.0_352-8u352-ga-1~20.04-b08)
# Java VM: OpenJDK 64-Bit Server VM (25.352-b08 mixed mode linux-amd64 compressed oops)
# Problematic frame:
# C [libc.so.6+0x188717]
#
# Failed to write core dump. Core dumps have been disabled. To enable core dumping, try "ulimit -c unlimited"
before starting Java again
#
# An error report file with more information is saved as:
# /home/rfb/projects/VirtualBox-VMs/shared/projects/testcases/deploy/client/hs_err_pid471694.log
#
# If you would like to submit a bug report, please visit:
# http://bugreport.java.com/bugreport/crash.jsp
# The crash happened outside the Java Virtual Machine in native code.
# See problematic frame for where to report the bug.
#
Aborted (core dumped)
```

#5 - 01/25/2023 07:37 AM - Greg Shah

- % Done changed from 100 to 0

- Status changed from Rejected to New

### Files

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process_launch_helper.p	1.28 KB	01/24/2023	Roger Borrello
hs_err_pid453116.log	156 KB	01/24/2023	Roger Borrello
6663_windows_open_edge_testcase.png	208 KB	01/24/2023	Roger Borrello
hs_err_pid471694.log	155 KB	01/25/2023	Roger Borrello