Politechnika Świętokrzyska w Kielcach Wydział Elektrotechniki, Automatyki i Informatyki Programowanie Współbieżne

laboratorium

Temat:

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Grupa: 3ID11A

Data odbycia się laboratorium :19.10.2017

(laboratorium nr 2)

Data sporządzenia sprawozdania: 20.10.2017

Przydatne dane:

```
fork – tworzenie nowego procesu
getpid – zwrócenie ID procesu wywołującego
getppid – zwrócenie ID procesu macierzystego przez potomka
wait – oczekiwanie na zakończenie się dowolnego procesu potomka (z parametrem NULL) lub
wszystkich procesów potomnych (z parametrem &status)
signal – wysłanie sygnału
sleep – uśpienie procesu na daną ilość sekund
```

Zadanie 2

Napisać/przepisać i uruchomić poniższy program, zrozumieć jak działa.

```
#include <stdio.h>
#include <stdlib.h>
main()
int childpid;
int status=1;
int zakonczono;
printf("startuje proces macierzysty pid %d\n",getpid());
if ((childpid = fork()) == -1)
    perror("nie moge forknac");
    exit(1);
else
    if (childpid == 0)
     printf("Proces potomny o pidzie %d z rodzica
%d\n",getpid(),getppid());
     }
    else
     printf("Proces macierzysty o pidzie %d i dziecku
%d\n", getpid(), childpid);
exit(0);
Wyniki:
83642@st06-lab319:~$ ./z2
startuje proces macierzysty pid 4220
Proces macierzysty o pidzie 4220 i dziecku 4221
Proces potomny o pidzie 4221 z rodzica 2085
```

Zadanie 3

Sprawić by proces potomny zakończył się po procesie macierzystym (funkcja sleep). Sprawdzić identyfikator procesu macierzystego w procesie potomnym po zakończeniu rodzica. Sprawdzić by proces potomny zakończył się przed końcem rodzica (rodzic jeszcze nie wywołuje wait). Zbadać czy proces potomny widnieje jeszcze w systemie (ps -efa).

```
#include <stdio.h>
#include <stdlib.h>
main()
int childpid;
int status=1;
int zakonczono;
printf("startuje proces macierzysty pid %d\n",getpid());
if ((childpid = fork()) == -1)
   perror("nie moge forknac");
   exit(1);
else
   if (childpid == 0)
       {
       sleep(10);
       printf("Proces potomny o pidzie %d z rodzica
%d\n",getpid(),getppid());
       }
   else
       printf("Proces macierzysty o pidzie %d i dziecku
%d\n",getpid(),childpid);
       return 0;
}
Wynik:
83642@st06-lab319:~$ ./z3a
startuje proces macierzysty pid 4982
Proces macierzysty o pidzie 4982 i dziecku 4983
83642@st06-lab319:~$ Proces potomny o pidzie 4983 z rodzica 2085
83642@st06-lab319:~$ ps -efa
         PID PPID C STIME TTY
UID
                                        TIME CMD
          1 0 0 18:55 ?
root
                                   00:00:01 /sbin/init
           2
                 0 0 18:55 ?
                                   00:00:00 [kthreadd]
root
           3
                2 0 18:55 ?
root
                                   00:00:00 [ksoftirqd/0]
                2 0 18:55 ?
root
          5
                                   00:00:00 [kworker/0:0H]
          6
                2 0 18:55 ?
                                   00:00:00 [kworker/u16:0]
root
          7
                2 0 18:55 ?
                                   00:00:00 [rcu sched]
root
          8
                2 0 18:55 ?
root
                                    00:00:00 [rcuos/0]
root
           9
                2 0 18:55 ?
                                   00:00:00 [rcuos/1]
         10
                2 0 18:55 ?
                                   00:00:00 [rcuos/2]
root
          11
                2 0 18:55 ?
                                   00:00:00 [rcuos/3]
root.
                2 0 18:55 ?
                                   00:00:00 [rcuos/4]
          12
root.
          13
                2 0 18:55 ?
root
                                   00:00:00 [rcuos/5]
                2 0 18:55 ?
                                   00:00:00 [rcuos/6]
          14
root
root 15 2 0 18:55 ? 00:00:00 [rcuos/7]
```

```
16
                    2
                       0 18:55 ?
                                          00:00:00 [rcu bh]
root.
                        0 18:55 ?
root
             17
                    2
                                          00:00:00 [rcuob/0]
             18
                    2
                        0 18:55 ?
                                           00:00:00 [rcuob/1]
root
             19
                    2
                        0 18:55
                                           00:00:00 [rcuob/2]
root
                                ?
                       0 18:55 ?
                                          00:00:00 [rcuob/3]
             20
                    2
root
                                          00:00:00 [rcuob/4]
             21
                    2
                       0 18:55 ?
root
                    2
                       0 18:55 ?
                                          00:00:00 [rcuob/5]
             22
root
             23
                    2
                       0 18:55 ?
                                          00:00:00 [rcuob/6]
root
             24
                    2
                       0 18:55 ?
                                          00:00:00 [rcuob/7]
root.
             25
                    2
                       0 18:55 ?
                                          00:00:00 [migration/0]
root.
                    2
                       0 18:55 ?
             26
                                          00:00:00 [watchdog/0]
root.
             27
                    2
                       0 18:55 ?
                                          00:00:00 [watchdog/1]
root
                    2
             28
                       0 18:55 ?
                                          00:00:00 [migration/1]
root
             29
                    2
                       0 18:55 ?
                                          00:00:00 [ksoftirqd/1]
root
             31
                    2
                       0 18:55 ?
                                          00:00:00 [kworker/1:0H]
root
root
             32
                    2
                       0 18:55 ?
                                          00:00:00 [watchdog/2]
             33
                    2
                       0 18:55 ?
                                          00:00:00 [migration/2]
root.
             34
                    2
                       0 18:55 ?
                                          00:00:00 [ksoftirqd/2]
root
                       0 18:55 ?
             36
                    2
                                          00:00:00 [kworker/2:0H]
root
root
             37
                    2
                       0 18:55 ?
                                          00:00:00 [watchdog/3]
             38
                    2
                       0 18:55 ?
                                          00:00:00 [migration/3]
root
             39
                    2
                       0 18:55 ?
                                          00:00:00 [ksoftirqd/3]
root
                                          00:00:00 [kworker/3:0]
             40
                    2
                       0 18:55 ?
root
                    2
             41
                       0 18:55 ?
                                          00:00:00 [kworker/3:0H]
root.
root.
             42
                    2
                       0 18:55 ?
                                          00:00:00 [khelper]
                                          00:00:00 [kdevtmpfs]
             43
                    2
                       0 18:55 ?
root
                    2
                       0 18:55 ?
                                          00:00:00 [netns]
root
             44
             45
                    2
                       0 18:55 ?
                                          00:00:00 [writeback]
root
                    2
                       0 18:55 ?
                                          00:00:00 [kintegrityd]
root
             46
             47
                    2
                       0 18:55 ?
                                          00:00:00 [bioset]
root.
                    2
             48
                       0 18:55 ?
                                          00:00:00 [kworker/u17:0]
root
             49
                    2
                       0 18:55 ?
                                          00:00:00 [kblockd]
root.
             50
                    2
                       0 18:55 ?
                                          00:00:00 [ata sff]
root.
             51
                    2
                       0 18:55 ?
                                          00:00:00 [khubd]
root
             52
                    2
                       0 18:55 ?
                                          00:00:00 [md]
root
             53
                    2
                       0 18:55 ?
root
                                          00:00:00 [devfreq wq]
root
             54
                    2
                       0 18:55
                                ?
                                          00:00:00 [kworker/0:1]
             55
                    2
                       0 18:55 ?
                                          00:00:00 [kworker/1:1]
root.
                    2
                       0 18:55 ?
                                          00:00:00 [kworker/2:1]
             56
root
             57
                    2
                       0 18:55 ?
                                          00:00:00 [kworker/3:1]
root
             59
                    2
                       0 18:55 ?
                                          00:00:00 [khungtaskd]
root
                    2
                       0 18:55 ?
             60
                                          00:00:00 [kswapd0]
root
                    2
                       0 18:55 ?
                                          00:00:00 [ksmd]
             61
root
             62
                    2
                       0 18:55 ?
                                          00:00:00 [khugepaged]
root
                    2
                       0 18:55 ?
             63
                                          00:00:00 [fsnotify mark]
root.
                    2
                       0 18:55 ?
             64
                                          00:00:00 [ecryptfs-kthrea]
root.
                                          00:00:00 [crypto]
             65
                    2
                       0 18:55 ?
root
                    2
                       0 18:55 ?
root
             77
                                          00:00:00 [kthrotld]
             79
                    2
                       0 18:55 ?
                                          00:00:00 [scsi eh 0]
root
             80
                    2
                       0 18:55 ?
root
                                          00:00:00 [scsi eh 1]
             82
                    2
                       0 18:55 ?
                                          00:00:00 [scsi eh 2]
root
                       0 18:55 ?
                    2
                                          00:00:00 [scsi eh 3]
             83
root
                    2
                       0 18:55 ?
             86
                                          00:00:00 [kworker/u16:5]
root
            105
                    2
                        0 18:55 ?
                                          00:00:00 [deferwa]
root
                                          00:00:00 [charger manager]
root
            106
                    2
                        0 18:55 ?
            167
                    2
                        0 18:55 ?
                                          00:00:00 [jbd2/sda8-8]
root
                    2
            168
                        0 18:55 ?
root
                                          00:00:00 [ext4-rsv-conver]
```

root	291	1	0	18:56	?	00:00:00	upstart-udev-bridge
daemon							
root	297	1	0	18:56	?	00:00:00	/lib/systemd/systemd-
udevdd							
root	338	2		18:56	?	00:00:00	[irq/46-mei_me]
root	352			18:56	?	00:00:00	
root	363	2	0	18:56	?	00:00:00	[kvm-irqfd-clean]
root	364	2	0	18:56	?	00:00:00	[hd-audio0]
root	442	1	0	18:56	?	00:00:00	upstart-socket-bridge -
-daemon							
root	498	1	0	18:56	?	00:00:00	rpcbind
root	525	2	0	18:56	?	00:00:00	[ttm swap]
root	526	2	0	18:56	?	00:00:00	[kworker/u17:1]
root	544	2	0	18:56	?	00:00:00	[hd-audio1]
root	628	1	0	18:56	?	00:00:00	upstart-file-bridge
daemon							1
syslog	641	1	0	18:56	?	00:00:00	rsyslogd
message+	646	1	0	18:56	?		dbus-daemonsystem
fork							-
root	659	1	0	18:56	?	00:00:00	/usr/sbin/ModemManager
root	677				?		/usr/sbin/bluetoothd
root	684			18:56	Š		[krfcommd]
avahi	689	1		18:56			avahi-daemon: running
[st06-lab		_	•		•		
root	696	1	0	18:56	Š	00:00:00	/lib/systemd/systemd-
logind		_	•		•		, ===, =, =, = ===, =, =, =, ======
avahi	698	689	0	18:56	Š	00:00:00	avahi-daemon: chroot
helper	000	000	Ŭ	10.00	•		
root	705	1	0	18:56	?	00:00:00	ypbind -broadcast -no-
dbus	, 00	_	Ŭ	10.00	•		Abstract Steaded of He
root	715	1	0	18:56	Š	00:00:00	NetworkManager
root	721	1		18:56			/usr/lib/policykit-
1/polkitd							, , , ,
root	877	1	0	18:56	ttv4	00:00:00	/sbin/getty -8 38400
tty4					<u> </u>		
root	881	1	0	18:56	ttv5	00:00:00	/sbin/getty -8 38400
tty5					<u> </u>		
root	888	1	0	18:56	tty2	00:00:00	/sbin/getty -8 38400
tty2					4		
root	889	1	0	18:56	ttv3	00:00:00	/sbin/getty -8 38400
tty3					4		
root	892	1	0	18:56	tty6	00:00:00	/sbin/getty -8 38400
tty6					4		
root	936	1	0	18:56	?	00:00:00	/usr/sbin/sshd -D
root	974			18:56			acpid -c
/etc/acpi	/event						•
root	977			18:56	?	00:00:00	/usr/sbin/cups-browsed
root	998			18:56			/usr/sbin/irqbalance
root	1000			18:56		00:00:00	
whoopsie	1006			18:56			whoopsie
root	1011			18:56			/opt/pbis/sbin/lwsmd
start-as-		-	-	2 2 0 0			
root	1034	1011	0	18:56	Ş	00:00:00	lw-container lwreg
root	1063			18:56			lw-container eventlog
root	1089			18:56			lw-container netlogon
root	1114			18:56			lw-container lwio
root	1141			18:56			lw-container lsass
root	1175			18:56			lw-container reapsysl
1000		-	_		•	55.55.50	I COMPARING TOURS AND A DE

root	1232	1	0	18:56	?	00:00:00	/usr/sbin/gpm -m
/dev/inpu	t/mice						
kernoops	1261	1	0	18:56	?	00:00:00	/usr/sbin/kerneloops
root	1319	1	0	18:56	tty1	00:00:00	/sbin/getty -8 38400
tty1					-		<u> </u>
nobody	1325	715	Ω	18:56	?	00.00.00	/usr/sbin/dnsmasqno-
resolv		, 20	Ū		•		, ac1, colin, anomacq 110
root	1530	1	Ω	18:56	?	00.00.00	/usr/sbin/cupsd -f
lp	1533	1530		18:56		00:00:00	/ dSI / SDIII / Capsa I
/usr/lib/						00.00.00	
						00-00-00	1 +
root	1538	1		18:56		00:00:00	
root	1550	1538	2	18:56	tty/	00:00:20	/usr/bin/X -core :0 -
seat seat			_		_		
root	1553	1		18:56		00:00:00	
/usr/lib/							
root	1612	2		18:56			[kauditd]
root	1655	1538	0	18:56	3	00:00:00	lightdmsession-child
12 19							
root	1714	1	0	18:56	?	00:00:00	/usr/lib/upower/upowerd
rtkit	1745	1	0	18:56	?	00:00:00	/usr/lib/rtkit/rtkit-
daemon							
root	2013	2	0	18:56	?	00:00:00	[kworker/1:2]
root	2018	2		18:56			[kworker/2:2]
root	2052	2		18:57			[cifsiod]
root	2056	2		18:57		00:00:00	
83642	2083	1		18:57			/usr/bin/gnome-keyring-
daemon		_	O	10.57	•	00.00.00	, usi, bill, gliolie Regiillig
83642	2085	1655	Λ	18:57	2	00.00.00	inituser
83642		2085		18:57			ssh-agent -s
	2151						
83642	2157	2085	U	18:57	<i>:</i>	00:00:00	dbus-daemonfork
session -		0005	_	10 55		00 00 00	
83642	2166	2085		18:57			upstart-event-bridge
83642	2172	2085	U	18:57	3	00:00:00	/usr/lib/x86_64-linux-
gnu/hud/w							
83642	2182	2085	0	18:57	3	00:00:00	upstart-file-bridge
daemon							
83642	2184	2085	0	18:57	?	00:00:00	upstart-dbus-bridge
daemon	S						
83642	2185	2085	0	18:57	3	00:00:00	upstart-dbus-bridge
daemon	S						
83642	2187	2085	0	18:57	?	00:00:02	/usr/bin/ibus-daemon
daemonize							
83642	2224	2085	0	18:57	?	00:00:00	/usr/lib/x86 64-linux-
gnu/bamf/	b						_
83642	2229	2085	0	18:57	?	00:00:00	/usr/lib/gvfs/gvfsd
83642	2233	2085		18:57			/usr/lib/gvfs/gvfsd-
fuse /run			-				,,, g , g
83642	2247	2085	Ω	18:57	?	00.00.00	/usr/lib/dconf/dconf-
service	2217	2000	O	10.07	•	00.00.00	, asi, iis, acom, acom
83642	2279	2187	Λ	18:57	2	00.00.00	/usr/lib/ibus/ibus-
dconf	2217	2107	O	10.57	•	00.00.00	/ 431/ 110/ 1043/ 1043
83642	2281	2187	\cap	18:57	2	00.00.00	/usr/lib/ibus/ibus-ui-
	2201	210/	U	10:57	٤	00:00:00	/usi/iib/ibus/ibus-ui-
gtk3	2202	2005	^	10.57	2	00-00-00	/am/lib/06 64 31
83642	2283	2085	U	18:57	:	00:00:00	/usr/lib/x86_64-linux-
gnu/gconf		0005	^	10	0	00 00 00	/ / 7 ! 1. / ! 1 / ! 1 / ! 1
83642	2288	2085	U	18:57	?	00:00:00	/usr/lib/ibus/ibus-x11
kill-da							

83642 2305 2187 0 18:57 ? 00:00:00 /usr/lib/ibus/ibus- engine-simple root 2314 2 0 18:57 ? 00:00:00 (kworker/0:2] 83642 2342 2085 0 18:57 ? 00:00:00 /usr/lib/unity- settings-demon/u 83642 2346 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/hud/hu 83642 2351 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/hud/hu 83642 2352 2085 0 18:57 ? 00:00:00 /usr/lib/at-spi2- core/at-spi-bus 83642 2354 2085 0 18:57 ? 00:00:00 /usr/lib/unity/unity- panel-servi 83642 2354 2085 0 18:57 ? 00:00:00 /usr/lib/unity/unity- panel-servi 83642 2372 2085 0 18:57 ? 00:00:00 /usr/lib/was-daemon config-file-/ 83642 2372 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2383 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2384 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2388 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2380 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2380 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2395 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2410 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2411 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2412 2095 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2410 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2410 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2410 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2410 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2410 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2410 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2410 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux- gnu/indica 83642 2410 2085 0 18:57 ? 00:00:00 /usr/lib/washef-4-linux- gnu/indica 83642 2410 2085 0 18:57 ? 00:00:00 /usr/lib/washef-4-linux- gnu/indica 83642 2410 2085 0 18:57 ? 00:00:00 /usr/lib/washef-4-linux- gnu/indica 83642 2410 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
root 2314 2 0 18:57 ? 00:00:00 [kworker/0:2] 83642 2342 2085 0 18:57 ? 00:00:00 /usr/lib/unity-settings-daemon/u 83642 2346 2085 0 18:57 ? 00:00:00 /usr/lib/k86_64-linux-gnu/hud/hu 83642 2351 2085 0 18:57 ? 00:00:00 /usr/lib/k86_64-linux-gnu/hud/hu 83642 2352 2085 0 18:57 ? 00:00:00 gnome-sessionsession-ubuntu 83642 2354 2085 0 18:57 ? 00:00:00 /usr/lib/unity/unity-ganel-serv! 83642 2358 2351 0 18:57 ? 00:00:00 /usr/lib/unity/unity-ganel-serv! 83642 2372 2085 0 18:57 ? 00:00:00 /usr/lib/unity/unity-ganel-serv! 83642 2372 2085 0 18:57 ? 00:00:00 /usr/lib/at-spi2-core/at-spi2-re 83642 2383 2085 0 18:57 ? 00:00:00 /usr/lib/at-spi2-core/at-spi2-re 83642 2383 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux-gnu/indica 83642 2384 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux-gnu/indica 83642 2388 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux-gnu/indica 83642 2384 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux-gnu/indica 83642 2384 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux-gnu/indica 83642 2382 2352 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux-gnu/indica 83642 240 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux-gnu/indica 83642 2488 2085 0 18:57 ? 00:00:00 /usr/lib/x86_64-linux-gnu/indica 83642 2887 2352 0 18:57 ? 00:00:00 /usr/lib/ysfg/gyfsd-metadata 83642 287 2352 0 18:57 ? 00:00:00 /usr/lib/policykit-1-gnome/polki 83642 2880 2352 0 18:57 ? 00:00:00 /usr/lib/policykit-1-gnome/polki 83642 2880 2352 0 18:57 ? 00:00:00 /usr/lib/gyfs/gyfsd-metadata 83642 2887 2855 0 18:57 ? 00:00:00 /usr/lib/gyfs/gyfsd-metadata 83642 2887 2855 0 18:57 ? 00:00:00 /usr/lib/gyfs/gyfsd-metadata 83642 2887 2855 0 18:57 ? 00:00:00 /usr/lib/gyfs/gyfsd-metadata 83642 2897 2855 0 18:57 ? 00:00:00 /usr/lib/gyfs/gyfs		2187	0	18:57	?	00:00:00	/usr/lib/ibus/ibus-
## 83642	-						
### Settings-daemon/u ### 83642	root 2314						
### ### ### ### ### ### ### ### ### ##	83642 2342	2085	0	18:57	?	00:00:00	/usr/lib/unity-
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settings-daemon/u 83642 2882 2352 0 18:57 ? 00:00:01 nautilus -n 83642 2897 2085 0 18:57 ? 00:00:00 /usr/lib/gvfs/gvfs- udisks2-volum root 2902 1 0 18:57 ? 00:00:00 /usr/lib/udisks2/udisksdno-de 83642 2915 2085 0 18:57 ? 00:00:00 /usr/lib/gvfs/gvfs-							
83642 2882 2352 0 18:57 ? 00:00:01 nautilus -n 83642 2897 2085 0 18:57 ? 00:00:00 /usr/lib/gvfs/gvfs- udisks2-volum root 2902 1 0 18:57 ? 00:00:00 /usr/lib/udisks2/udisksdno-de 83642 2915 2085 0 18:57 ? 00:00:00 /usr/lib/gvfs/gvfs-			U	10.07	•	00.00.00	, ast, ttp/ unitcy
83642 2897 2085 0 18:57 ? 00:00:00 /usr/lib/gvfs/gvfs-udisks2-volum root 2902 1 0 18:57 ? 00:00:00 /usr/lib/udisks2/udisksdno-de 83642 2915 2085 0 18:57 ? 00:00:00 /usr/lib/gvfs/gvfs-			^	10-57	0	00.00 01	
<pre>udisks2-volum root 2902 1 0 18:57 ?</pre>							
root 2902 1 0 18:57 ? 00:00:00 /usr/lib/udisks2/udisksdno-de 83642 2915 2085 0 18:57 ? 00:00:00 /usr/lib/gvfs/gvfs-		2085	U	T8:27	?	00:00:00	/usr/llb/gvis/gvis-
/usr/lib/udisks2/udisksdno-de 83642 2915 2085 0 18:57 ? 00:00:00 /usr/lib/gvfs/gvfs-							
83642 2915 2085 0 18:57 ? 00:00:00 /usr/lib/gvfs/gvfs-						00:00:00	
	/usr/lib/udisks	2/udis	ks	dno	-de		
gphoto2-volum	83642 2915	2085	0	18:57	?	00:00:00	/usr/lib/gvfs/gvfs-
	gphoto2-volum						-

```
83642
         2926 2085 0 18:57 ?
                                     00:00:00 /usr/lib/qvfs/qvfs-mtp-
volume-mo
83642
         2931 2085
                    0 18:57 ?
                                      00:00:00 /usr/lib/gvfs/gvfs-afc-
volume-mo
      2973 2085 0 18:57 ?
83642
                                      00:00:00 /usr/lib/gvfs/gvfsd-
trash --spaw
83642 2985 2085 0 18:57 ?
                                      00:00:00 /usr/lib/gvfs/gvfsd-
burn --spawn
83642
         3012 2352 0 18:57 ?
                                      00:00:00 telepathy-indicator
         3024 2085 0 18:57 ?
83642
                                      00:00:00
/usr/lib/telepathy/mission-contr
83642
       3047 2352 0 18:57 ?
                                      00:00:00 zeitgeist-datahub
         3052 2085 0 18:57 ?
83642
                                      00:00:00 /usr/bin/zeitgeist-
daemon
83642
         3058 2085 0 18:57 ?
                                      00:00:00 /usr/lib/x86 64-linux-
gnu/zeitge
83642
         3080 3058 0 18:57 ?
                                      00:00:00 /bin/cat
83642
         3120 2085 4 18:57 ?
                                      00:00:27
/usr/lib/firefox/firefox
83642
         3148 2085 0 18:57 ?
                                      00:00:00 /usr/lib/libunity-
webapps/unity-
        3256 2352 0 18:58 ?
                                      00:00:00 update-notifier
83642
83642
         3393 2352 0 18:59 ?
                                      00:00:00 /usr/lib/x86 64-linux-
gnu/deja-d
                                      00:00:00 /usr/lib/x86 64-linux-
83642
         3661 2085 0 19:01 ?
gnu/unity-
         3673
               2085
                    0 19:01 ?
                                      00:00:00 /usr/bin/unity-scope-
83642
loader appl
         3677
               2085
                    0 19:01 ?
                                      00:00:00 /usr/lib/x86 64-linux-
83642
gnu/unity-
         3721
               2085 0 19:01 ?
                                      00:00:00 /usr/lib/x86 64-linux-
83642
gnu/unity-
         3737
               2085 0 19:01 ?
                                      00:00:02 gnome-terminal
83642
83642
         3744 3737 0 19:01 ?
                                      00:00:00 gnome-pty-helper
         3745 3737 0 19:01 pts/1
83642
                                      00:00:00 bash
                 2 0 19:04 ?
                                      00:00:00 [kworker/u16:1]
root
         4283
83642
         4298 2085 0 19:04 ?
                                      00:00:01 gedit
/home/83642/Pulpit/wyniki
root.
       4315 2 0 19:04 ?
                                      00:00:00 [kworker/0:0]
         4834 3737 0 19:08 pts/4
83642
                                     00:00:00 bash
83642
         4983 2085 0 19:08 pts/1
                                     00:00:00 ./z3a
         4985 4834 0 19:09 pts/4
                                      00:00:00 ps -efa
#include <stdio.h>
#include <stdlib.h>
main()
int childpid;
int status=1;
int zakonczono;
printf("startuje proces macierzysty pid %d\n", getpid());
if ((childpid = fork()) == -1)
    perror("nie moge forknac");
    exit(1);
else
```

```
if (childpid == 0)
       printf("Proces potomny o pidzie %d z rodzica
%d\n",getpid(),getppid());
       }
    else
        {
       sleep(10);
       printf("Proces macierzysty o pidzie %d i dziecku
%d\n",getpid(),childpid);
return 0;
}
Wynik:
83642@st06-lab319:~$ ./z3b
startuje proces macierzysty pid 5478
Proces potomny o pidzie 5479 z rodzica 5478
Proces macierzysty o pidzie 5478 i dziecku 5479
83642@st06-lab319:~$ ps -efa
     PID PPID C STIME TTY
                                         TIME CMD
UTD
                 0 0 18:55 ?
                                     00:00:01 /sbin/init
root
           1
            2
                  0 0 18:55 ?
                                     00:00:00 [kthreadd]
root
           3
                  2 0 18:55 ?
root
                                     00:00:00 [ksoftirqd/0]
           5
                 2 0 18:55 ?
                                    00:00:00 [kworker/0:0H]
root
           7
                 2 0 18:55 ?
                                    00:00:00 [rcu sched]
root
          8
                 2 0 18:55 ?
                                     00:00:00 [rcuos/0]
root
           9
                  2 0 18:55 ?
                                     00:00:00 [rcuos/1]
root
          10
                 2 0 18:55 ?
                                     00:00:00 [rcuos/2]
root.
          11
                 2 0 18:55 ?
                                    00:00:00 [rcuos/3]
root
          12
                 2 0 18:55 ?
                                    00:00:00 [rcuos/4]
root.
          13
                 2 0 18:55 ?
                                    00:00:00 [rcuos/5]
root.
          14
                2 0 18:55 ?
                                    00:00:00 [rcuos/6]
root
          15
                2 0 18:55 ?
                                     00:00:00 [rcuos/7]
root
          16
                2 0 18:55 ?
root
                                     00:00:00 [rcu bh]
          17
                 2 0 18:55 ?
root
                                     00:00:00 [rcuob/0]
          18
                 2 0 18:55 ?
                                     00:00:00 [rcuob/1]
root.
          19
                2 0 18:55 ?
                                     00:00:00 [rcuob/2]
root
          20
                 2 0 18:55 ?
                                     00:00:00 [rcuob/3]
root
                 2 0 18:55 ?
          21
                                     00:00:00 [rcuob/4]
root
          22
                 2 0 18:55 ?
                                    00:00:00 [rcuob/5]
root
          23
                 2 0 18:55 ?
                                    00:00:00 [rcuob/6]
root
          24
                 2 0 18:55 ?
                                     00:00:00 [rcuob/7]
root
          25
                  2 0 18:55 ?
                                     00:00:00 [migration/0]
root
                  2 0 18:55 ?
                                     00:00:00 [watchdog/0]
          26
root.
          27
                  2 0 18:55 ?
                                     00:00:00 [watchdog/1]
root
          28
                 2 0 18:55 ?
root
                                     00:00:00 [migration/1]
          29
                 2 0 18:55 ?
                                     00:00:00 [ksoftirqd/1]
root
          31
                 2 0 18:55 ?
root
                                     00:00:00 [kworker/1:0H]
          32
                 2 0 18:55 ?
                                     00:00:00 [watchdog/2]
root
          33
                 2 0 18:55 ?
                                     00:00:00 [migration/2]
root
          34
                 2 0 18:55 ?
                                     00:00:00 [ksoftirqd/2]
root
          36
                 2 0 18:55 ?
                                     00:00:00 [kworker/2:0H]
root
           37
                                     00:00:00 [watchdog/3]
                  2 0 18:55 ?
root
          38
                 2 0 18:55 ?
                                     00:00:00 [migration/3]
root
          39
                 2 0 18:55 ?
root
                                    00:00:00 [ksoftirgd/3]
          40
                 2 0 18:55 ?
                                     00:00:00 [kworker/3:0]
root
```

```
41
                   2 0 18:55 ?
                                       00:00:00 [kworker/3:0H]
root
           42
                   2 0 18:55 ?
root
                                       00:00:00 [khelper]
            43
                     0 18:55 ?
                                       00:00:00 [kdevtmpfs]
root.
            44
                     0 18:55 ?
                                       00:00:00 [netns]
root
           45
                   2 0 18:55 ?
                                       00:00:00 [writeback]
root
           46
                   2 0 18:55 ?
                                       00:00:00 [kintegrityd]
root
           47
                   2 0 18:55 ?
                                       00:00:00 [bioset]
root
           48
                   2 0 18:55 ?
                                       00:00:00 [kworker/u17:0]
root
root.
           49
                   2 0 18:55 ?
                                       00:00:00 [kblockd]
           50
                   2 0 18:55 ?
                                       00:00:00 [ata sff]
root
                   2 0 18:55 ?
           51
                                       00:00:00 [khubd]
root
                     0 18:55 ?
           52
                   2
                                       00:00:00 [md]
root
            53
                   2
                     0 18:55 ?
                                       00:00:00 [devfreq wq]
root
                                       00:00:00 [kworker/1:1]
           55
                   2 0 18:55 ?
root
           56
                   2 0 18:55 ?
                                       00:00:00 [kworker/2:1]
root
root
           57
                   2 0 18:55 ?
                                       00:00:00 [kworker/3:1]
           59
                   2 0 18:55 ?
                                       00:00:00 [khungtaskd]
root
           60
                   2 0 18:55 ?
                                       00:00:00 [kswapd0]
root
                   2 0 18:55 ?
                                       00:00:00 [ksmd]
           61
root
                   2 0 18:55 ?
root
            62
                                       00:00:00 [khuqepaged]
                                       00:00:00 [fsnotify mark]
root
            63
                   2 0 18:55 ?
           64
                   2 0 18:55 ?
                                       00:00:00 [ecryptfs-kthrea]
root
           65
                   2 0 18:55 ?
                                       00:00:00 [crypto]
root
            77
                   2 0 18:55 ?
                                       00:00:00 [kthrotld]
root
           79
                   2 0 18:55 ?
root
                                       00:00:00 [scsi eh 0]
           80
                   2 0 18:55 ?
                                       00:00:00 [scsi eh 1]
root
           82
                   2 0 18:55 ?
                                       00:00:00 [scsi eh 2]
root
                   2 0 18:55 ?
           83
                                       00:00:00 [scsi eh 3]
root
           86
                   2
                     0 18:55 ?
                                       00:00:00 [kworker/u16:5]
root
           105
                   2 0 18:55 ?
                                       00:00:00 [deferwq]
root
                   2 0 18:55 ?
           106
                                       00:00:00 [charger manager]
root
           167
                   2 0 18:55 ?
                                       00:00:00 [jbd2/sda8-8]
root.
           168
                   2 0 18:55 ?
                                       00:00:00 [ext4-rsv-conver]
root
                   1 0 18:56 ?
           291
                                       00:00:00 upstart-udev-bridge --
root
daemon
           297
                   1 0 18:56 ?
                                       00:00:00 /lib/systemd/systemd-
root
udevd --dae
           338
                   2
                     0 18:56 ?
                                       00:00:00 [irq/46-mei me]
root.
root
           352
                   2 0 18:56 ?
                                       00:00:00 [edac-poller]
           363
                   2 0 18:56 ?
                                       00:00:00 [kvm-irqfd-clean]
root
           364
                   2 0 18:56 ?
                                       00:00:00 [hd-audio0]
root
           442
                   1 0 18:56 ?
root
                                       00:00:00 upstart-socket-bridge -
-daemon
           498
                   1
                     0 18:56 ?
                                       00:00:00 rpcbind
root
                   2 0 18:56 ?
           525
                                       00:00:00 [ttm swap]
root
                   2
                     0 18:56 ?
                                       00:00:00 [kworker/u17:1]
root
           526
                                       00:00:00 [hd-audio1]
           544
                   2 0 18:56 ?
root
                                       00:00:00 upstart-file-bridge --
root
           628
                   1 0 18:56 ?
daemon
syslog
           641
                   1
                     0 18:56 ?
                                       00:00:00 rsyslogd
           646
                   1 0 18:56 ?
                                       00:00:01 dbus-daemon --system --
message+
fork
           659
                   1
                     0 18:56 ?
                                       00:00:00 /usr/sbin/ModemManager
root
           677
                   1
                     0 18:56 ?
                                       00:00:00 /usr/sbin/bluetoothd
root
root
           684
                   2
                     0 18:56 ?
                                       00:00:00 [krfcommd]
           689
                   1 0 18:56 ?
                                       00:00:00 avahi-daemon: running
avahi
[st06-lab3
```

logind avahi	root	696	1	0	18:56	?	00:00:00	/lib/systemd/systemd-
helper root 705 1 0 18:56 ? 00:00:00 ypbind -broadcast -no-dbus root 715 1 0 18:56 ? 00:00:00 NetworkManager root 721 1 0 18:56 ? 00:00:01 /usr/lib/policykit-1/polkitd -n root 877 1 0 18:56 tty4 00:00:00 /sbin/getty -8 38400 tty4 root 881 1 0 18:56 tty5 00:00:00 /sbin/getty -8 38400 tty5 root 888 1 0 18:56 tty2 00:00:00 /sbin/getty -8 38400 tty2 root 889 1 0 18:56 tty3 00:00:00 /sbin/getty -8 38400 tty2 root 892 1 0 18:56 tty3 00:00:00 /sbin/getty -8 38400 tty4 root 974 1 0 18:56 ry 00:00:00 /sbin/getty -8 38400 tty4 root 974 1 0 18:56 ? 00:00:00 /sbin/getty -8 38400 tty6 root 974 1 0 18:56 ? 00:00:00 /sbin/getty -8 38400 tty6 root 974 1 0 18:56 ? 00:00:00 /sbin/getty -8 38400 tty6 root 977 1 0 18:56 ? 00:00:00 /usr/sbin/sshd -D root 977 1 0 18:56 ? 00:00:00 /usr/sbin/cups-browsed root 10:00 1 0 18:56 ? 00:00:00 /usr/sbin/cups-browsed root 10:00 1 0 18:56 ? 00:00:00 /usr/sbin/irqbalance root 10:00 1 0 18:56 ? 00:00:00 /usr/sbin/irqbalance root 10:00 1 0 18:56 ? 00:00:00 /wsr/sbin/irqbalance root 10:03 10:11 0 18:56 ? 00:00:00 /wsr/sbin/lwsmd -start-as-root 10:34 10:11 0 18:56 ? 00:00:00 /wsr/sbin/lwsmd -start-as-root 10:35 10:11 0 18:56 ? 00:00:00 /wsr/sbin/lwsmd -start-as-root 10:35 10:11 0 18:56 ? 00:00:00 /wsr/sbin/gem -m root 11:14 10:11 0 18:56 ? 00:00:00 /wsr/sbin/gem -m root 11:14 10:11 0 18:56 ? 00:00:00 /wsr/sbin/derneloops root 11:14 10:11 0 18:56 ? 00:00:00 /wsr/sbin/derneloops root 11:14 10:11 0 18:56 ? 00:00:00 /wsr/sbin/derneloops root 15:38 1 0 18:56 ? 00:00:00 /wsr/sbin/derneloops root 15:53 1 0 18:56 ? 00:00:00	_					_		
root 705 1 0 18:56 ? 00:00:00 ypbind -broadcast -no-dbus root 715 1 0 18:56 ? 00:00:01 NetworkManager root 721 1 0 18:56 ? 00:00:00 NetworkManager root 877 1 0 18:56 tty4 00:00:00 /sbin/getty -8 38400 tty5 1 0 18:56 tty5 00:00:00 /sbin/getty -8 38400 tty5 1 0 18:56 tty2 00:00:00 /sbin/getty -8 38400 tty2 2 0 00:00:00 /sbin/getty -8 38400 tty3 1 0 18:56 tty3 00:00:00 /sbin/getty -8 38400 tty3 1 0 18:56 tty3 00:00:00 /sbin/getty -8 38400 tty3 1 0 18:56 tty3 00:00:00 /sbin/getty -8 38400		698	689	0	18:56	?	00:00:00	avahi-daemon: chroot
dbus	_	50	1	_	10 56		00 00 00	
root 715 1 0 18:56 ? 00:00:00 NetworkManager root 721 1 0 18:56 ? 00:00:01 /usr/lib/policykit- 1/polkitdn root 877 1 0 18:56 tty4 00:00:00 /sbin/getty -8 38400 tty4 root 881 1 0 18:56 tty5 00:00:00 /sbin/getty -8 38400 tty5 root 888 1 0 18:56 tty2 00:00:00 /sbin/getty -8 38400 tty2 root 889 1 0 18:56 tty3 00:00:00 /sbin/getty -8 38400 tty3 root 892 1 0 18:56 tty6 00:00:00 /sbin/getty -8 38400 tty3 root 974 1 0 18:56 ? 00:00:00 /sbin/getty -8 38400 tty6 root 974 1 0 18:56 ? 00:00:00 /sbin/getty -8 38400 tty6 root 977 1 0 18:56 ? 00:00:00 /sbin/getty -8 38400 tty6 root 977 1 0 18:56 ? 00:00:00 /sbin/getty -8 38400 tty6 root 977 1 0 18:56 ? 00:00:00 /usr/sbin/sshd -D root 998 1 0 18:56 ? 00:00:00 /usr/sbin/cups-browsed root 998 1 0 18:56 ? 00:00:00 /usr/sbin/cups-browsed root 1000 1 0 18:56 ? 00:00:00 /usr/sbin/irgbalance root 1011 1 0 18:56 ? 00:00:00 /usr/sbin/irgbalance root 1011 1 0 18:56 ? 00:00:00 /wsc-r/sbin/irgbalance root 1031 4 1011 0 18:56 ? 00:00:00 /wsc-r/sbin/lib/sbin/lwsmdstart-as-root 1033 1011 0 18:56 ? 00:00:00 /w-container lwreg root 1063 1011 0 18:56 ? 00:00:00 /w-container lwreg root 1141 1011 0 18:56 ? 00:00:00 lw-container lwreg root 1141 1011 0 18:56 ? 00:00:00 lw-container lwrig root 1141 1011 0 18:56 ? 00:00:00 lw-container reapsysl root 1232 1 0 18:56 ? 00:00:00 lw-container reapsysl root 1339 1 0 18:56 ? 00:00:00 /usr/sbin/dnsmasqno-resolv root 1538 1 0 18:56 ? 00:00:00 /usr/sbin/dnsmasqno-resolv root 1538 1 0 18:56 ? 00:00:00 /usr/sbin/x -core :0 -seat seat0 root 1538 1 0 18:56 ? 00:00:00 /usr/sbin/x -core :0 -seat seat0 root 1538 1 0 18:56 ? 00:00:00 /usr/sbin/x -core :0 -seat seat0 root 1538 1 0 18:56 ? 00:00:00 /usr/sbin/x -core :0 -seat seat0 root 1538 1 0 18:56 ? 00:00:00 /usr/sbin/x -core :0 -seat seat0 root 1538 1 0 18:56 ? 00:00:00 /usr/sbin/x -core :0 -seat seat0 root 1538 1 0 18:56 ? 00:00:00 /usr/sbin/x -core :0 -seat seat0 root 1538 1 0 18:56 ? 00:00:00 /usr/sbin/x -core :0 -seat seat0 root 1538 2 10:00:00 /usr/sbin/x -core :0 -seat seat0 root 1538 2 0 0:0		705	1	0	18:56	?	00:00:00	ypbind -broadcast -no-
root 721 1 0 18:56 ? 00:00:01 /usr/lib/policykit- 1/polkitdn root 877 1 0 18:56 tty4 00:00:00 /sbin/getty -8 38400 tty4 root 881 1 0 18:56 tty5 00:00:00 /sbin/getty -8 38400 tty5 root 888 1 0 18:56 tty3 00:00:00 /sbin/getty -8 38400 tty5 root 892 1 0 18:56 tty3 00:00:00 /sbin/getty -8 38400 tty6 root 936 1 0 18:56 ? 00:00:00 /sbin/getty -8 38400 tty6 root 974 1 0 18:56 ? 00:00:00 /usr/sbin/sshd -D root 977 1 0 18:56 ? 00:00:00 /usr/sbin/cups-browsed root 998 1 0 18:56 ? 00:00:00 /usr/sbin/irgbalance root 998 1 0 18:56 ? 00:00:00 ron whoopsie 1006 1 0 18:56 ? 00:00:00 ron whoopsie 1006 1 0 18:56 ? 00:00:00 ron root 1011 1 0 18:56 ? 00:00:00 ron start-as- root 1034 1011 0 18:56 ? 00:00:00 lw-container lwreg root 1089 1011 0 18:56 ? 00:00:00 lw-container eventlog root 1141 1011 0 18:56 ? 00:00:00 lw-container seventlog root 1141 1011 0 18:56 ? 00:00:00 lw-container netlogon root 1141 1011 0 18:56 ? 00:00:00 lw-container netlogon root 1141 1011 0 18:56 ? 00:00:00 lw-container netlogon root 1232 1 0 18:56 ? 00:00:00 lw-container reapsysl root 1232 1 0 18:56 ? 00:00:00 lw-container reapsysl root 1319 1 0 18:56 ? 00:00:00 lw-container netlogon root 1319 1 0 18:56 ? 00:00:00 lw-container netlogon root 1319 1 0 18:56 ? 00:00:00 lw-container netlogon root 1530 1 0 18:56 ? 00:00:00 lw-container netlogon root 1530 1 0 18:56 ? 00:00:00 lw-container netlogon root 1530 1 0 18:56 ? 00:00:00 lw-container netlogon root 1530 1 0 18:56 ? 00:00:00 lw-container netlogon root 1530 1 0 18:56 ? 00:00:00 lw-container netlogon root 1530 1 0 18:56 ? 00:00:00 lw-container netlogon root 1550 1530 2 18:56 ? 00:00:00 lw-container root 1550 1530 1 0 18:56 ? 00:00:00 lw-container root 1551 1011 0 18:56 ? 00:00:00 lw-container root 1552 1011 0 18:56 ? 00:00:00 lw-container root 1553 1 0 18:56 ? 00:00:00 lw-container root 1553 1 0 18:56 ? 00:00:00 lw-container root 1553 1 0 18:56 ? 00:00:00 lw-container root 1550 1530 0 18:56 ? 00:00:00 lw-container root 1551 1010 lw-container root 1552 1010 lw-container root 1553 1 0 18:56 ? 00:00:00 lw-conta		715	1	^	10 50	0	00 00 00	No. 1 1 Maria a sa sa sa
1/polkitdn								
Note 1			Τ	U	18:30	£	00:00:01	/usr/lib/policykit-
try4 root	_		1	0	10.56	++1	00.00.00	/abin/cotty 0 30400
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root	2056	2		18:57		00:00:00	
83642	2083	1	0	18:57	?	00:00:00	/usr/bin/gnome-keyring-
daemon ·							
83642	2085	1655	0	18:57	?	00:00:00	inituser
83642	2151	2085	0	18:57	?	00:00:00	ssh-agent -s
83642	2157	2085		18:57			dbus-daemonfork
session		2000	O	10.07	•	00.00.00	abab aacmon lork
83642	2166	2085	\cap	18:57	2	00.00.00	upstart-event-bridge
83642	2172	2085	U	18:57	2	00:00:00	/usr/lib/x86_64-linux-
gnu/hud,							
83642	2182	2085	0	18:57	?	00:00:00	upstart-file-bridge
daemon ·	u						
83642	2184	2085	0	18:57	?	00:00:00	upstart-dbus-bridge
daemon ·	s						
83642	2185	2085	Ο	18:57	?	00:00:00	upstart-dbus-bridge
daemon ·			-		•		ap
83642	2187	2085	\cap	18:57	2	00.00.02	/usr/bin/ibus-daemon
		2005	U	10.57	•	00.00.03	/usi/biii/ibus-daeiiioii
daemoni			_	40 55	_		/ /2.12./ 0.6.64.21
83642	2224	2085	U	18:57	3	00:00:00	/usr/lib/x86_64-linux-
gnu/bam:							
83642	2229	2085	0	18:57	?	00:00:00	/usr/lib/gvfs/gvfsd
83642	2233	2085	0	18:57	?	00:00:00	/usr/lib/gvfs/gvfsd-
fuse /r	un/us						3
83642	2247	2085	Ω	18:57	2	00.00.00	/usr/lib/dconf/dconf-
service		2000	Ü	10.07	•	00.00.00	, 401, 110, 400111, 400111
83642	2279	2187	Λ	18:57	2	00.00.00	/usr/lib/ibus/ibus-
	2219	2107	U	10.57	•	00.00.00	/ uSI/ IID/ IDuS/ IDuS-
dconf	0001	0405	_	40 55	_		/ /- /- /- /
83642	2281	2187	U	18:57	.5	00:00:00	/usr/lib/ibus/ibus-ui-
gtk3							
83642	2283	2085	0	18:57	?	00:00:00	/usr/lib/x86_64-linux-
gnu/gco	nf/						
83642	2288	2085	0	18:57	?	00:00:00	/usr/lib/ibus/ibus-x11
kill-d	da						
83642	2305	2187	Ω	18:57	2	00.00.00	/usr/lib/ibus/ibus-
engine-		2107	O	10.07	٠	00.00.00	, 451, 115, 1545, 1545
root	2314	2	\circ	18:57	2	00.00.00	[kworker/0:2]
83642	2342	2085	U	18:57	?	00:00:00	/usr/lib/unity-
_	s-daemon						
83642	2346	2085	0	18:57	?	00:00:00	/usr/lib/x86_64-linux-
gnu/hud.	/hu						
83642	2351	2085	0	18:57	?	00:00:00	/usr/lib/at-spi2-
core/at	-spi-bus						
83642	2352	2085	0	18:57	?	00:00:00	gnome-session
session							3
83642	2354	2085	Λ	18:57	2	00.00.00	/usr/lib/unity/unity-
panel-se		2005	O	10.57	•	00.00.00	/ usi/ iib/ unicy/ unicy
-		0051	^	10 57	0	00 00 00	/1- ' / -111
83642	2358	2351	U	18:57	•	00:00:00	/bin/dbus-daemon
config-							
83642	2372	2085	0	18:57	?	00:00:00	/usr/lib/at-spi2-
core/at	-spi2-re						
83642	2381	2085	0	18:57	?	00:00:00	/usr/lib/x86 64-linux-
gnu/ind:	ica						_
83642	2383	2085	()	18:57	?	00:00:00	/usr/lib/x86 64-linux-
gnu/ind			-		-	11,00,00	
83642	2384	2085	\cap	18:57	2	00.00.00	/usr/lib/x86 64-linux-
gnu/ind		2000	U	10.07	٠	00.00.00	, usi, iib/ x00_04 iillux-
-		2005	\wedge	10-57	0	00-00-00	/a.a./lib/QC_C4_li
83642	2387	2085	U	18:57	•	00:00:00	/usr/lib/x86_64-linux-
gnu/ind	ıca						

83642	2388	2085	0	18:57	?	00:00:00	/usr/lib/x86_64-linux-
gnu/indi			_		_		, , , , , , , , , , , , , , , , , , , ,
83642	2395	2085	0	18:57	?	00:00:01	/usr/lib/x86_64-linux-
gnu/indi		2005	^	10.57	0	00-00-00	//1:h-/0.6 64 1:
83642 gnu/indi	2396	2085	U	18:57	<i>:</i>	00:00:00	/usr/lib/x86_64-linux-
gnu/inai 83642	2411	2085	\cap	18:57	2	00.00.00	/usr/lib/x86 64-linux-
gnu/noti		2005	U	10.57	÷	00.00.00	/usi/iib/x00_04-iiiux-
83642	2462	2085	Λ	18:57	2	00.00.00	/usr/lib/x86 64-linux-
gnu/indi		2005	U	10.57	•	00.00.00	/u31/11D/X00_04 11HuX
83642	2470	2085	Ο	18:57	?	00.00.00	/usr/lib/x86 64-linux-
gnu/indi		2000	ŭ		•		, 481, 118, 1186_01 1111411
83642	2488	2085	0	18:57	?	00:00:00	
/usr/lib	/evolut						
colord	2569	1		18:57		00:00:00	/usr/lib/colord/colord
83642	2817	2352	1	18:57	?	00:00:17	compiz
83642	2854	2085		18:57		00:00:00	
/usr/lib							
83642	2871	2085		18:57		00.00.00	/usr/lib/gvfs/gvfsd-
metadata		2000	O	10.07	•	00.00.00	, usi, iis, gvis, gvisa
83642	2877	2352	Λ	18:57	2	00.00.00	/usr/lib/policykit-1-
gnome/po		2332	U	10.57	<u> </u>	00.00.00	/usi/iib/policykic-i-
83642	2879	2352	0	18:57	2	00.00.00	nm
		2352		18:57			nm-applet
83642	2880		U	18:5/	<i>:</i>	00:00:00	/usr/lib/unity-
settings			_	10 55		00 00 00	
83642	2882	2352		18:57			nautilus -n
83642	2897	2085	0	18:57	3	00:00:00	/usr/lib/gvfs/gvfs-
udisks2-							
root	2902	1		18:57		00:00:00	
/usr/lib	/udisks	2/udis	ks	dno-	-de		
83642	2915	2085	0	18:57	?	00:00:00	/usr/lib/gvfs/gvfs-
gphoto2-	volum						
83642	2926	2085	0	18:57	?	00:00:00	/usr/lib/gvfs/gvfs-mtp-
volume-m	0						
83642	2931	2085	0	18:57	?	00:00:00	/usr/lib/gvfs/gvfs-afc-
volume-m	0						
83642	2973	2085	0	18:57	?	00:00:00	/usr/lib/gvfs/gvfsd-
trash	spaw						3
83642	2985	2085	0	18:57	?	00:00:00	/usr/lib/gvfs/gvfsd-
burns	pawn						
83642	3012	2352	0	18:57	?	00:00:00	telepathy-indicator
83642	3024	2085		18:57		00:00:00	1 1 1 2
/usr/lib							
83642	3047	2352		18 : 57		00.00.00	zeitgeist-datahub
83642	3052	2085		18:57			/usr/bin/zeitgeist-
daemon	3032	2005	U	10.57	•	00.00.00	/usi/bin/zercyersc
	3058	2085	0	10.57	2	00.00.00	/an/lib/06 64 lin
83642		2083	U	18:57	£	00:00:00	/usr/lib/x86_64-linux-
gnu/zeit		2050	^	10 57	0	00 00 00	/1 / /
83642	3080	3058		18:57			/bin/cat
83642	3120	2085		18:57	?	00:00:28	
/usr/lib					_		
83642	3148	2085	0	18:57	?	00:00:00	/usr/lib/libunity-
webapps/	_						
83642	3256	2352		18:58			update-notifier
83642	3393	2352	0	18:59	?	00:00:00	/usr/lib/x86_64-linux-
gnu/deja	-d						_
83642	3661	2085	0	19:01	?	00:00:00	/usr/lib/x86_64-linux-
gnu/unit	у-						_
-	_						

```
83642
          3673 2085 0 19:01 ?
                                             00:00:00 /usr/bin/unity-scope-
loader appl
83642
       3677 2085 0 19:01 ?
                                             00:00:00 /usr/lib/x86 64-linux-
qnu/unity-
                                             00:00:00 /usr/lib/x86 64-linux-
83642
           3721 2085 0 19:01 ?
gnu/unity-
83642 3737 2085 0 19:01 ?
                                             00:00:05 gnome-terminal
                                             00:00:00 gnome-pty-helper
83642
          3744 3737 0 19:01 ?
          3745 3737 0 19:01 pts/1 00:00:00 bash
83642
          4283 2 0 19:04 ?
                                            00:00:00 [kworker/u16:1]
root.
         4298 2085 0 19:04 ?
83642
                                             00:00:02 gedit
/home/83642/Pulpit/wyniki
         4315 2 0 19:04 ? 00:00:00 [kworker/0:0]

4834 3737 0 19:08 pts/4 00:00:00 bash

5521 3745 0 19:13 pts/1 00:00:00 ./z3b

5522 5521 0 19:13 pts/1 00:00:00 [z3b] <defunct>

5527 4834 0 19:13 pts/4 00:00:00 ps -efa
        4315 2 0 19:04 ?
root
83642
83642
83642
83642
```

Zadanie 4

Zastosować funkcję wait odbierając wynik zakończenia procesu potomnego. Sprawdzić zachowanie się obu procesów. Proces potomny powinien zwrócić wartość inną niż 0 np. exit(2). Wyświetlić co odbierze wait w sposób **niesformatowany** (nie używać WEXITSTATUS czy przesunięć bitowych).

```
#include <stdio.h>
#include <stdlib.h>
main()
int childpid;
int status=1;
int zakonczono;
printf("startuje proces macierzysty pid %d\n",getpid());
if ((childpid = fork()) == -1)
    perror("nie moge forknac");
    exit(1);
else
    if (childpid == 0)
        printf("Proces potomny o pidzie %d z rodzica
%d\n",getpid(),getppid());
        sleep(10);
        exit(2);
    else
        wait(&status);
printf("Proces macierzysty o pidzie %d i dziecku
%d\n", getpid(), childpid);
        printf("Status %d\n", status);
return 0;
```

```
Wynik:
83642@st06-lab319:~$ ./z4
startuje proces macierzysty pid 6571
Proces potomny o pidzie 6572 z rodzica 6571
Proces macierzysty o pidzie 6571 i dziecku 6572
Status 512
```

Zadanie 5

Stworzyć n=5 procesów potomnych z jednego procesu macierzystego. Zastosować funkcję wait do poprawnego zakończenia. Każdy potomek powinien zatrzymać się na 5 sekund (sleep) by na drugiej konsoli sprawdzić za pomocą ps -efa czy udało się wygenerować dokładnie 5 potomków (ps powinien pokazać 5 procesów potomnych). Procesy powinny zaczynać się razem i kończyć razem. Zastosować pętlę zamiast konstrukcji if else if else ...

```
#include <stdio.h>
#include <stdlib.h>
main()
{
int childpid;
int status=1;
int zakonczono;
printf("startuje proces macierzysty pid %d\n", qetpid());
int i;
for(i=0;i<5;i++){
if ((childpid = fork()) == -1)
    perror("nie moge forknac");
    exit(1);
else
    if (childpid == 0)
        printf("Proces potomny o pidzie %d z rodzica
%d\n",getpid(),getppid());
        sleep(5);
        exit(2);
}
}
        int j;
        for (j=0; j<5; j++) {
        wait();
exit(0);
}
Wynik:
83642@st06-lab319:~$ ./z5
startuje proces macierzysty pid 8179
Proces potomny o pidzie 8180 z rodzica 8179
Proces potomny o pidzie 8181 z rodzica 8179
Proces potomny o pidzie 8182 z rodzica 8179
```

83642@st06	-lab3	19:~\$	ps	-efa			
UID	PID	PPID	С	STIME	TTY	TIME	CMD
root	1	0	0	18:55	?	00:00:01	/sbin/init
root	2	0	0	18:55	?	00:00:00	[kthreadd]
root	3	2	0	18:55	?	00:00:00	[ksoftirqd/0]
root	5	2	0	18:55	?	00:00:00	[kworker/0:0H]
root	7	2	0	18:55	?	00:00:01	[rcu sched]
	8	2	0	18:55	· ·	00:00:00	[rcuos/0]
root root	9	2	0	18:55	; ;	00:00:00	[rcuos/0]
	10	2		18:55		00:00:01	
root		2	0	18:55	?		[rcuos/2]
root	11	2	0		?	00:00:01	[rcuos/3]
root	12	2	0	18:55	?	00:00:00	[rcuos/4]
root	13		0	18:55	?	00:00:00	[rcuos/5]
root	14	2	0	18:55	?	00:00:00	[rcuos/6]
root	15	2	0	18:55	?	00:00:00	[rcuos/7]
root	16	2	0	18:55	?	00:00:00	[rcu_bh]
root	17	2	0	18:55	?	00:00:00	[rcuob/0]
root	18	2	0	18:55	?	00:00:00	[rcuob/1]
root	19	2	0	18:55	?	00:00:00	[rcuob/2]
root	20	2	0	18:55	?	00:00:00	[rcuob/3]
root	21	2	0	18:55	?	00:00:00	[rcuob/4]
root	22	2	0	18:55	3	00:00:00	[rcuob/5]
root	23	2	0	18:55	3	00:00:00	[rcuob/6]
root	24	2	0	18:55	3	00:00:00	[rcuob/7]
root	25	2	0	18:55	3	00:00:00	[migration/0]
root	26	2	0	18:55	3	00:00:00	[watchdog/0]
root	27	2	0	18:55	3	00:00:00	[watchdog/1]
root	28	2	0	18:55	?	00:00:00	[migration/1]
root	29	2	0	18:55	?	00:00:00	[ksoftirqd/1]
root	31	2	0	18:55	?	00:00:00	[kworker/1:0H]
root	32	2	0	18:55	?	00:00:00	[watchdog/2]
root	33	2	0	18:55	?	00:00:00	[migration/2]
root	34	2	0	18:55	?	00:00:00	[ksoftirqd/2]
root	36	2	0	18:55	?	00:00:00	[kworker/2:0H]
root	37	2	0	18:55	?	00:00:00	[watchdog/3]
root	38	2	0	18:55	?	00:00:00	[migration/3]
root	39	2	0	18:55	?	00:00:00	[ksoftirqd/3]
root	40	2	0	18:55	?	00:00:00	[kworker/3:0]
root	41	2	0	18:55	?	00:00:00	[kworker/3:0H]
root	42	2	0	18:55	?	00:00:00	[khelper]
root	43	2	0	18:55	?	00:00:00	[kdevtmpfs]
root	44	2	0	18:55	?	00:00:00	[netns]
root	45	2	0	18:55	?	00:00:00	[writeback]
root	46	2	0	18:55	?	00:00:00	[kintegrityd]
root	47	2	0	18:55	?	00:00:00	[bioset]
root	48	2	0	18:55	?	00:00:00	[kworker/u17:0]
root	49	2	0	18:55	?	00:00:00	[kblockd]
root	50	2	0	18:55	?	00:00:00	[ata_sff]
root	51	2	0	18:55	?	00:00:00	[khubd]
root	52	2	0	18:55	?	00:00:00	[md]
root	53	2	0	18:55	?	00:00:00	[devfreq_wq]
root	55	2	0	18:55	?	00:00:01	[kworker/1:1]
root	56	2	0	18:55	?	00:00:00	[kworker/2:1]
root	57	2	0	18:55	?	00:00:00	[kworker/3:1]
root	59	2	0	18:55	3	00:00:00	[khungtaskd]

```
60
                   2 0 18:55 ?
                                        00:00:00 [kswapd0]
root
                     0 18:55 ?
                                        00:00:00 [ksmd]
root
            61
            62
                   2
                      0 18:55 ?
                                        00:00:00 [khugepaged]
root
            63
                   2
                      0 18:55 ?
                                        00:00:00 [fsnotify mark]
root
            64
                   2 0 18:55 ?
                                        00:00:00 [ecryptfs-kthrea]
root
            65
                   2 0 18:55 ?
                                        00:00:00 [crypto]
root
            77
                   2 0 18:55 ?
                                        00:00:00 [kthrotld]
root
            79
                   2 0 18:55 ?
                                        00:00:00 [scsi eh 0]
root
root.
            80
                   2 0 18:55 ?
                                        00:00:00 [scsi eh 1]
            82
                   2
                     0 18:55 ?
                                        00:00:00 [scsi eh 2]
root
                     0 18:55 ?
                   2
                                        00:00:00 [scsi eh 3]
root
            83
                     0 18:55 ?
           105
                   2
                                        00:00:00 [deferwq]
root
                   2
                     0 18:55 ?
root
           106
                                        00:00:00 [charger manager]
                   2 0 18:55 ?
           167
                                        00:00:00 [jbd2/sda8-8]
root
           168
                   2 0 18:55 ?
                                        00:00:00 [ext4-rsv-conver]
root
root
           291
                   1 0 18:56 ?
                                        00:00:00 upstart-udev-bridge --
daemon
           297
                   1 0 18:56 ?
                                        00:00:00 /lib/systemd/systemd-
root
udevd --dae
                   2
                      0 18:56 ?
root
           338
                                        00:00:00 [irg/46-mei me]
root
           352
                   2
                      0 18:56 ?
                                        00:00:00 [edac-poller]
           363
                   2 0 18:56 ?
                                        00:00:00 [kvm-irqfd-clean]
root
                   2 0 18:56 ?
           364
                                        00:00:00 [hd-audio0]
root.
           442
                   1
                     0 18:56 ?
                                        00:00:00 upstart-socket-bridge -
root.
-daemon
                   1 0 18:56 ?
root
           498
                                        00:00:00 rpcbind
           525
                   2 0 18:56 ?
                                        00:00:00 [ttm swap]
root
                   2 0 18:56 ?
root
           526
                                        00:00:00 [kworker/u17:1]
           544
                   2
                      0 18:56 ?
                                        00:00:00 [hd-audio1]
root
           628
                   1 0 18:56 ?
                                        00:00:00 upstart-file-bridge --
root.
daemon
svslog
           641
                   1
                     0 18:56 ?
                                        00:00:00 rsyslogd
                   1 0 18:56 ?
                                        00:00:02 dbus-daemon --system --
message+
           646
fork
           659
                   1
                      0 18:56 ?
                                        00:00:00 /usr/sbin/ModemManager
root
           677
                     0 18:56 ?
                                        00:00:00 /usr/sbin/bluetoothd
root
                   1
root
           684
                   2
                      0 18:56 ?
                                        00:00:00 [krfcommd]
                                        00:00:00 avahi-daemon: running
avahi
           689
                   1
                     0 18:56 ?
[st06-lab3
           696
                     0 18:56 ?
                                        00:00:00 /lib/systemd/systemd-
root
                   1
logind
           698
                 689
                      0 18:56 ?
                                        00:00:00 avahi-daemon: chroot
avahi
helper
                                        00:00:00 ypbind -broadcast -no-
           705
                   1
                      0 18:56 ?
root
dbus
           715
                      0 18:56 ?
                                        00:00:00 NetworkManager
root
                   1
           721
                      0 18:56 ?
root
                                        00:00:03 /usr/lib/policykit-
                   1
1/polkitd --n
root
           877
                   1
                      0 18:56 tty4
                                        00:00:00 /sbin/getty -8 38400
tty4
           881
                      0 18:56 tty5
                                        00:00:00 /sbin/getty -8 38400
root
                   1
tty5
                                        00:00:00 /sbin/getty -8 38400
root
           888
                   1
                      0 18:56 tty2
ttv2
root
           889
                   1
                      0 18:56 tty3
                                        00:00:00 /sbin/getty -8 38400
tty3
           892
                      0 18:56 tty6
                                       00:00:00 /sbin/getty -8 38400
root
                   1
tty6
```

```
936
                1 0 18:56 ?
                                     00:00:00 /usr/sbin/sshd -D
root.
                 1 0 18:56 ?
          974
                                     00:00:00 acpid -c
root
/etc/acpi/events -s /va
        977
                 1 0 18:56 ?
                                     00:00:00 /usr/sbin/cups-browsed
root
root
          998
                  1 0 18:56 ?
                                     00:00:00 /usr/sbin/irqbalance
        1000
                 1 0 18:56 ?
                                     00:00:00 cron
root
whoopsie 1006
                 1 0 18:56 ?
                                     00:00:00 whoopsie
        1011
                 1 0 18:56 ?
                                     00:00:00 /opt/pbis/sbin/lwsmd --
root
start-as-
         1034 1011 0 18:56 ?
                                     00:00:00 lw-container lwreg
root.
         1063 1011 0 18:56 ?
                                     00:00:00 lw-container eventlog
root.
         1089 1011 0 18:56 ?
                                     00:00:00 lw-container netlogon
root
         1114 1011 0 18:56 ?
root
                                     00:00:00 lw-container lwio
                                     00:00:02 lw-container lsass
         1141 1011 0 18:56 ?
root
        1175 1011 0 18:56 ?
                                     00:00:00 lw-container reapsysl
root
root
         1232
                 1 0 18:56 ?
                                     00:00:00 /usr/sbin/gpm -m
/dev/input/mice
                  1 0 18:56 ?
                                     00:00:00 /usr/sbin/kerneloops
kernoops 1261
                 1 0 18:56 tty1
                                     00:00:00 /sbin/getty -8 38400
         1319
root
tty1
nobody
         1325 715 0 18:56 ?
                                     00:00:00 /usr/sbin/dnsmasg --no-
resolv --
                1 0 18:56 ?
                                     00:00:00 /usr/sbin/cupsd -f
root
         1530
         1533 1530 0 18:56 ?
                                     00:00:00
/usr/lib/cups/notifier/dbus dbus
        1538
               1 0 18:56 ?
                                     00:00:00 lightdm
root.
         1550 1538 1 18:56 tty7
                                     00:00:38 /usr/bin/X -core :0 -
root
seat seat0
         1553 1 0 18:56 ?
                                     00:00:00
root
/usr/lib/accountsservice/account
root 1612 2 0 18:56 ?
                                     00:00:00 [kauditd]
root
         1655 1538 0 18:56 ?
                                     00:00:00 lightdm --session-child
12 19
         1714
                  1 0 18:56 ?
                                     00:00:00 /usr/lib/upower/upowerd
root
         1745
                  1 0 18:56 ?
                                     00:00:01 /usr/lib/rtkit/rtkit-
rtkit
daemon
                  2 0 18:56 ?
root
         2013
                                     00:00:00 [kworker/1:2]
         2018
                  2 0 18:56 ?
                                     00:00:00 [kworker/2:2]
root.
         2052
                  2 0 18:57 ?
                                     00:00:00 [cifsiod]
root
                  2 0 18:57 ?
         2056
                                     00:00:01 [cifsd]
root
                 1 0 18:57 ?
83642
         2083
                                     00:00:00 /usr/bin/gnome-keyring-
daemon --
83642
         2085 1655 0 18:57 ?
                                     00:00:00 init --user
         2151 2085 0 18:57 ?
83642
                                     00:00:00 ssh-agent -s
         2157 2085 0 18:57 ?
                                     00:00:00 dbus-daemon --fork --
83642
session --a
         2166
83642
               2085 0 18:57 ?
                                     00:00:00 upstart-event-bridge
               2085
83642
         2172
                    0 18:57 ?
                                     00:00:00 /usr/lib/x86 64-linux-
gnu/hud/wi
         2182
               2085
                    0 18:57 ?
                                     00:00:00 upstart-file-bridge --
83642
daemon --u
        2184 2085
                    0 18:57 ?
                                     00:00:00 upstart-dbus-bridge --
83642
daemon --s
83642
        2185 2085
                    0 18:57 ?
                                     00:00:00 upstart-dbus-bridge --
daemon --s
       2187 2085 0 18:57 ?
83642
                                     00:00:10 /usr/bin/ibus-daemon --
daemonize
```

83642 2224	2085	0 18:5	7 ?	00:00:01	/usr/lib/x86_64-linux-
gnu/bamf/b					
83642 2229	2085	0 18:5	7 ?	00:00:00	/usr/lib/gvfs/gvfsd
83642 2233	2085	0 18:5	7 ?	00:00:00	/usr/lib/gvfs/gvfsd-
fuse /run/us					
	2085	0 18:5	7 0	00.00.00	/
	2085	0 18:5	/ :	00:00:00	/usr/lib/dconf/dconf-
service					
83642 2279	2187	0 18:5	7 ?	00:00:00	/usr/lib/ibus/ibus-
dconf					
83642 2281	2187	0 18:5	7 2	00.00.02	/usr/lib/ibus/ibus-ui-
	210/	0 10:5	/ :	00:00:02	/usi/lib/ibus/ibus-ui-
gtk3					
83642 2283	2085	0 18:5	7 ?	00:00:00	/usr/lib/x86 64-linux-
gnu/gconf/					_
83642 2288	2085	0 18:5	7 2	00.00.00	/usr/lib/ibus/ibus-x11
	2005	0 10.5	/ :	00.00.00	/usi/iib/ibus/ibus-xii
kill-da					
83642 2305	2187	0 18:5	7 ?	00:00:03	/usr/lib/ibus/ibus-
engine-simple					
root 2314	2	0 18:5	7 2	00.00.00	[kworker/0:2]
	2085				
83642 2342		0 18:5	/ :	00:00:00	/usr/lib/unity-
settings-daemon	ı/u				
83642 2346	2085	0 18:5	7 ?	00:00:00	/usr/lib/x86 64-linux-
gnu/hud/hu					<u> </u>
83642 2351	2085	0 18:5	7 2	00.00.00	/usr/lib/at-spi2-
		0 10.5	/ :	00.00.00	/usi/iib/at-spi2-
core/at-spi-bus					
83642 2352	2085	0 18:5	7 ?	00:00:00	gnome-session
session=ubuntu					
83642 2354	2085	0 18:5	7 2	00.00.01	/usr/lib/unity/unity-
	2005	0 10.5	, ·	00.00.01	/ dSI/ IID/ dliley/ dliley
panel-servi					
83642 2358	2351	0 18:5	7 ?	00:00:00	/bin/dbus-daemon
config-file=/					
83642 2372	2085	0 18:5	7 ?	00.00.00	/usr/lib/at-spi2-
		0 10.0	, •	00.00.00	/ d51/ 115/ dc 5P12
core/at-spi2-re			_		/ / /
83642 2381	2085	0 18:5	7 ?	00:00:00	/usr/lib/x86_64-linux-
gnu/indica					
83642 2383	2085	0 18:5	7 ?	00.00.00	/usr/lib/x86 64-linux-
gnu/indica	_000	0 10.0	•	00.00.00	, 401, 110, 110 0_01 1111411
	0005	0 10 5	7 0	00 00 00	/ /3.11 / 0.6 64 3.1
83642 2384	2085	0 18:5	/ 3	00:00:00	/usr/lib/x86_64-linux-
gnu/indica					
83642 2387	2085	0 18:5	7 ?	00:00:00	/usr/lib/x86 64-linux-
gnu/indica					
	2005	0 18:5	7 0	00-00-00	//1:1-/06 64 1:
83642 2388	2085	0 18:5	/ :	00:00:00	/usr/lib/x86_64-linux-
gnu/indica					
83642 2395	2085	0 18:5	7 ?	00:00:03	/usr/lib/x86 64-linux-
gnu/indica					<u> </u>
83642 2396	2085	0 18:5	7 0	00.00.00	/an/lib/06 64 lin
	2003	0 10:5	/ :	00:00:00	/usr/lib/x86_64-linux-
gnu/indica					
83642 2411	2085	0 18:5	7 ?	00:00:00	/usr/lib/x86 64-linux-
gnu/notify					_
83642 2462	2085	0 18:5	7 2	00.00.00	/usr/lib/x86 64-linux-
	2005	0 10.5	, ·	00.00.00	/ d31/11D/ x00_04 1111dx
gnu/indica					
83642 2470	2085	0 18:5	7 ?	00:00:00	/usr/lib/x86 64-linux-
gnu/indica					-
83642 2488	2085	0 18:5	7 ?	00:00:00	
				00.00.00	
/usr/lib/evolut					/- /- /- / · · ·
colord 2569	1	0 18:5			/usr/lib/colord/colord
83642 2817	2352	1 18:5	7 ?	00:00:25	compiz
	2085	0 18:5		00:00:00	_
/usr/lib/evolut				55.55.50	
/ ust/ ttb/ evolut	.TOII/ 6 V	OTUCTOII.	Cal		

```
83642
          2871 2085 0 18:57 ?
                                        00:00:00 /usr/lib/gvfs/gvfsd-
metadata
83642
          2877
                2352
                      0 18:57 ?
                                        00:00:00 /usr/lib/policykit-1-
gnome/polki
          2879
83642
                2352
                      0 18:57 ?
                                        00:00:00 nm-applet
83642
                      0 18:57 ?
                                        00:00:00 /usr/lib/unity-
          2880
                2352
settings-daemon/u
                      0 18:57 ?
                                        00:00:02 nautilus -n
83642
          2882
               2352
83642
          2897 2085
                      0 18:57 ?
                                        00:00:00 /usr/lib/gvfs/gvfs-
udisks2-volum
                                        00:00:00
          2902
                   1
                      0 18:57 ?
root
/usr/lib/udisks2/udisksd --no-de
                                        00:00:00 /usr/lib/gvfs/gvfs-
83642
          2915 2085
                      0 18:57 ?
gphoto2-volum
          2926 2085
                      0 18:57 ?
                                        00:00:00 /usr/lib/gvfs/gvfs-mtp-
83642
volume-mo
83642
          2931
                2085
                      0 18:57 ?
                                        00:00:00 /usr/lib/gvfs/gvfs-afc-
volume-mo
          2973
                      0 18:57 ?
                                        00:00:00 /usr/lib/qvfs/qvfsd-
                2085
83642
trash --spaw
83642
          2985
                2085
                      0 18:57 ?
                                        00:00:00 /usr/lib/qvfs/qvfsd-
burn --spawn
          3012
83642
                2352
                      0 18:57 ?
                                        00:00:00 telepathy-indicator
83642
          3024
                2085
                      0 18:57 ?
                                        00:00:00
/usr/lib/telepathy/mission-contr
83642
          3047
                2352
                      0 18:57 ?
                                        00:00:00 zeitgeist-datahub
83642
          3052
                2085
                      0 18:57 ?
                                        00:00:00 /usr/bin/zeitgeist-
daemon
83642
          3058
                2085
                      0 18:57 ?
                                        00:00:00 /usr/lib/x86 64-linux-
gnu/zeitge
                                        00:00:00 /bin/cat
83642
          3080
                3058
                      0 18:57 ?
83642
          3120 2085
                     1 18:57 ?
                                        00:00:32
/usr/lib/firefox/firefox
83642
          3148
                2085
                      0 18:57 ?
                                        00:00:00 /usr/lib/libunity-
webapps/unity-
          3256
                2352
                      0 18:58 ?
83642
                                        00:00:00 update-notifier
83642
          3393
                2352
                      0 18:59 ?
                                        00:00:00 /usr/lib/x86 64-linux-
gnu/deja-d
83642
          3661
                2085
                      0 19:01 ?
                                        00:00:00 /usr/lib/x86 64-linux-
gnu/unity-
83642
          3673
                2085
                      0 19:01 ?
                                        00:00:00 /usr/bin/unity-scope-
loader appl
          3677
                2085
                      0 19:01 ?
                                        00:00:00 /usr/lib/x86 64-linux-
83642
gnu/unity-
          3721
83642
                2085
                      0 19:01 ?
                                        00:00:00 /usr/lib/x86 64-linux-
qnu/unity-
          3737
                      0 19:01 ?
83642
                2085
                                        00:00:13 gnome-terminal
                                        00:00:00 gnome-pty-helper
83642
          3744
                3737
                      0 19:01 ?
83642
          3745
                3737
                      0 19:01 pts/1
                                        00:00:00 bash
          4283
root
                   2
                      0 19:04 ?
                                        00:00:00 [kworker/u16:1]
          4298
                2085
                      0 19:04 ?
                                        00:00:04 gedit
83642
/home/83642/Pulpit/wyniki
                      0 19:04 ?
                                        00:00:00 [kworker/0:0]
root
          4315
                   2
          4834
                3737
                                        00:00:00 bash
83642
                      0 19:08 pts/4
                                        00:00:00 [kworker/u16:0]
root
          6551
                   2
                      0 19:21 ?
                                        00:00:00 ./z5
83642
          8179
                3745
                      0 19:33 pts/1
83642
          8180 8179
                                        00:00:00 ./z5
                      0 19:33 pts/1
83642
          8181
                8179
                      0 19:33 pts/1
                                        00:00:00 ./z5
```

```
83642 8182 8179 0 19:33 pts/1 00:00:00 ./z5
83642 8183 8179 0 19:33 pts/1 00:00:00 ./z5
83642 8184 8179 0 19:33 pts/1 00:00:00 ./z5
83642 8189 4834 0 19:34 pts/4 00:00:00 ps -efa
```

Zadanie 7

Przykład przechwycenia sygnału SIGCHLD - wysyłanego przez dziecko w momencie zakończenia się. Zastosować poniższy przykład w dowolnym z wykonanych programów.

```
#include <stdio.h>
#include <stdlib.h>
#include <signal.h>
void oblsluga zakonczenia dziecka(int nr sig)
{
printf("Rodzic już się dowiedział o zakończeniu procesu
%d\n",wait(NULL));
main()
signal (SIGCHLD, oblsluga zakonczenia dziecka);
int childpid;
int status=1;
int zakonczono;
printf("startuje proces macierzysty pid %d\n", getpid());
if ((childpid = fork()) == -1)
    {
    perror("nie moge forknac");
    exit(1);
else
    if (childpid == 0)
        printf("Proces potomny o pidzie %d z rodzica
%d\n",getpid(),getppid());
        }
    else
        sleep(10);
        printf("Proces macierzysty o pidzie %d i dziecku
%d\n",getpid(),childpid);
exit(0);
}
Wynik:
83642@st06-lab319:~$ ./z7
startuje proces macierzysty pid 8997
Proces potomny o pidzie 8998 z rodzica 8997
Rodzic już się dowiedział o zakończeniu procesu 8998
Proces macierzysty o pidzie 8997 i dziecku 8998
```

Wnioski

Zajęcia pozwoliły na przypomnienie sobie informacji dotyczących tworzenia procesów. Udało mi się zrealizować wszystkie zadania poza zadaniem 6 z powodu błędów napisanego programu.