

W celu lepszej wizualizacji działania szeregowania do struktury proc dodałem pole count które inkrementuję dla każdego procesu w momencie jego wywołania. Zmodyfikowałem tablice deskryptorów tak aby pokazywała grupę oraz pole count dla każdego procesu.

```

mateusz@mateusz-piorun: ~/Desktop/SOI
--pid --pc- ---sp- flag -user --sys-- -group- -count- -size- -recv- command
(-10) e409 d38c 0 0 0 0 0 119K TTY
(-9) e409 d754 4 0 0 0 0 119K ANY (C1)
(-8) e409 db74 4 5 0 0 0 119K ANY at
(-7) e409 dd88 4 0 0 0 0 119K CLOCK SYN_AL
(-6) da8 ddf0 0 0 8137 0 0 119K IDLE
(-5) e409 e398 4 0 0 0 0 119K ANY FLOPPY
(-4) e409 e59c 4 0 0 0 0 119K ANY MEMORY
(-3) e409 e7dc 4 1 0 0 0 119K ANY CLOCK
(-2) e409 e9dc 4 5 0 0 0 119K ANY SYS
(-1) 0 e9f8 0 8132 0 0 0 119K HARDWAR
(0) 34d1 afc0 4 4 0 0 0 59K ANY MM
(1) 701d 1c7c4 4 30 0 0 0 143K ANY FS
1 17a5 1310 4 1 2 1 0 12K MM INIT
21 eba1 f638 4 0 12 1 15 125K FS sh
22 1671 41b8 4 0 1 1 0 23K FS getty
15 539 12fc 4 0 1 1 0 7K MM update
16 4019 9b04 4 0 2 1 0 62K MM cron
58 ab 20304 0 3196 2 1 265 135K Group
59 ab 20304 0 4782 0 2 530 135K Group
60 ab 20304 0 7968 0 3 1061 135K Group

```

$$A:B:C = 265 : 530 : 1061 = 1 : 2 : 4,0038$$

```
mateusz@mateusz-piorun: ~/Desktop/SOI
--pid --pc- ---sp- flag -user --sys-- -group- -count- -size- -recv- command
(-10) e409 d38c 0 0 0 0 0 119K TTY
(-9) e409 d754 4 0 0 0 0 119K ANY (C1)
(-8) e409 db74 4 5 0 0 0 119K ANY at
(-7) e409 dd88 4 0 0 0 0 119K CLOCK SYN_AL
(-6) da8 ddf0 0 1 13564 0 0 119K IDLE
(-5) e409 e398 4 0 0 0 0 119K ANY FLOPPY
(-4) e409 e59c 4 0 0 0 0 119K ANY MEMORY
(-3) e409 e7dc 4 1 0 0 0 119K ANY CLOCK
(-2) e409 e9dc 4 5 0 0 0 119K ANY SYS
(-1) 0 e9f8 0 13560 0 0 0 119K HARDWAR
(0) 34d1 afc0 4 7 0 0 0 59K ANY MM
(1) 701d 1c7c4 4 31 0 0 0 143K ANY FS
1 17a5 1310 4 1 2 1 0 12K MM INIT
21 eba1 f638 4 0 12 1 33 125K FS sh
22 1671 41b8 4 0 1 1 0 23K FS getty
15 539 12fc 4 0 1 1 0 7K MM update
16 4019 9b04 4 0 2 1 0 62K MM cron
92 ab 20304 0 4292 1 1 356 135K Group
93 ab 20304 0 4308 0 2 358 135K Group
94 ab 20304 0 4299 0 2 358 135K Group
--more--
--pid --pc- ---sp- flag -user --sys-- -group- -count- -size- -recv- command
95 ab 20304 0 10782 0 3 1436 135K Group
s
```

A:B:C = 356 : 716 : 1436 = 1 : 2,011 : 4,034

39	ab	20304	0	1794	0	2	150	135K	Group
40	ab	20304	0	1765	0	2	147	135K	Group

--pid	--pc-	---sp-	flag	-user	--sys--	-group-	-count-	-size-	-recv-	command
(-10)	e4cd	d388	0	0	0	0	0	120K	TTY	
(-9)	e4cd	d750	4	0	0	0	0	120K	ANY	(C1)
(-8)	e4cd	db70	4	3	0	0	0	120K	ANY	at
(-7)	e4cd	dd84	4	0	0	0	0	120K	CLOCK	SYN_AL
(-6)	da8	ddec	0	0	3018	0	0	120K		IDLE
(-5)	e4cd	e394	4	0	0	0	0	120K	ANY	FLOPPY
(-4)	e4cd	e598	4	0	0	0	0	120K	ANY	MEMORY
(-3)	e4cd	e7d8	0	1	0	0	0	120K		CLOCK
(-2)	e4cd	e9d8	4	10	0	0	0	120K	ANY	SYS
(-1)	0	e9f4	0	3016	0	0	0	120K		HARDWAR
(0)	34d1	afc0	4	2	0	0	0	59K	ANY	MM
(1)	701d	1c7c4	4	25	0	0	0	143K	ANY	FS
1	17a5	1310	4	0	6	1	0	12K	MM	INIT
21	eba1	f638	4	2	9	1	0	125K	FS	sh
22	1671	41b8	4	0	0	1	0	23K	FS	getty
15	539	12fc	4	0	1	1	0	7K	MM	update
16	4019	9b04	4	0	4	1	0	62K	MM	cron
38	ab	20304	0	6620	2	1	368	135K		Group
39	ab	20304	0	4458	0	2	372	135K		Group
40	ab	20304	0	4440	0	2	370	135K		Group

A:B = 365 : 742 = 1 : 2,033

```
mateusz@mateusz-piorun: ~/Desktop/SOI
--pid --pc- ---sp- flag -user --sys-- -group- -count- -size- -recv- command
(-10) e4cd d388 0 0 0 0 0 120K TTY
(-9) e4cd d750 4 0 0 0 0 120K ANY (C1)
(-8) e4cd db70 4 3 0 0 0 120K ANY at
(-7) e4cd dd84 4 0 0 0 0 120K CLOCK SYN_AL
(-6) da8 ddec 0 0 3248 0 0 120K IDLE
(-5) e4cd e394 4 0 0 0 0 120K ANY FLOPPY
(-4) e4cd e598 4 0 0 0 0 120K ANY MEMORY
(-3) e4cd e7d8 4 1 0 0 0 120K ANY CLOCK
(-2) e4cd e9d8 4 10 0 0 0 120K ANY SYS
(-1) 0 e9f4 0 3264 0 0 0 120K HARDWAR
(0) 34d1 afc0 4 2 0 0 0 59K ANY MM
(1) 701d 1c7c4 4 26 0 0 0 143K ANY FS
1 17a5 1310 4 0 6 1 0 12K MM INIT
21 eba1 f638 4 2 9 1 0 125K FS sh
22 1671 41b8 4 0 0 1 0 23K FS getty
15 539 12fc 4 0 1 1 0 7K MM update
16 4019 9b04 4 0 4 1 0 62K MM cfsa
59 ab 20304 0 5392 3 1 300 135K Group
60 ab 20304 0 3700 2 3 412 135K Group
61 ab 20304 0 3633 3 3 404 135K Group
--more--
--pid --pc- ---sp- flag -user --sys-- -group- -count- -size- -recv- command
62 ab 20304 0 3629 6 3 404 135K Group
```

A:C = 300 : 1220 = 1 : 4,067


```
mateusz@mateusz-piorun: ~/Desktop/SOI
(-10) e4cd d388 0 0 0 0 0 120K TTY
(-9) e4cd d750 4 0 0 0 0 120K ANY (C1)
(-8) e4cd db70 4 3 0 0 0 120K ANY at
(-7) e4cd dd84 4 0 0 0 0 120K CLOCK SYN_AL
(-6) da8 ddec 0 0 4614 0 0 120K IDLE
(-5) e4cd e394 4 0 0 0 0 120K ANY FLOPPY
(-4) e4cd e598 4 0 0 0 0 120K ANY MEMORY
(-3) e4cd e7d8 0 1 0 0 0 120K CLOCK
(-2) e4cd e9d8 4 10 0 0 0 120K ANY SYS
(-1) 0 e9f4 0 4630 0 0 0 120K HARDWAR
(0) 34d1 afc0 4 4 0 0 0 59K ANY MM
(1) 701d 1c7c4 4 26 0 0 0 143K ANY FS
1 17a5 1310 4 0 6 1 0 12K MM INIT
21 eba1 f638 4 2 9 1 0 125K FS sh
22 1671 41b8 4 0 0 1 0 23K FS getty
15 539 12fc 4 0 1 1 0 7K MM update
16 4019 9b04 4 0 4 1 0 62K MM cron
67 ab 20304 0 1529 2 2 128 135K Group
68 ab 20304 0 1536 0 2 128 135K Group
69 ab 20304 0 1566 0 3 173 135K Group
--more--
--pid --pc- ---sp- flag -user --sys-- -group- -count- -size- -recv- command
70 ab 20304 0 1512 0 3 168 135K Group
71 ab 20304 0 1476 0 3 164 135K Group
```

B:C = 256 : 505 = 1 : 1,973

```
mateusz@mateusz-piorun: ~/Desktop/SOI
(-10) e4cd d388 0 0 0 0 0 120K TTY
(-9) e4cd d750 4 0 0 0 0 120K ANY (C1)
(-8) e4cd db70 4 3 0 0 0 120K ANY at
(-7) e4cd dd84 4 0 0 0 0 120K CLOCK SYN_AL
(-6) da8 ddec 0 0 7963 0 0 120K IDLE
(-5) e4cd e394 4 0 0 0 0 120K ANY FLOPPY
(-4) e4cd e598 4 0 0 0 0 120K ANY MEMORY
(-3) e4cd e7d8 4 1 0 0 0 120K ANY CLOCK
(-2) e4cd e9d8 4 10 0 0 0 120K ANY SYS
(-1) 0 e9f4 0 7980 0 0 0 120K HARDWAR
(0) 34d1 afc0 4 5 0 0 0 59K ANY MM
(1) 701d 1c7c4 4 28 0 0 0 143K ANY FS
1 17a5 1310 4 0 6 1 0 12K MM INIT
21 eba1 f638 4 2 9 1 0 125K FS sh
22 1671 41b8 4 0 0 1 0 23K FS getty
15 539 12fc 4 0 1 1 0 7K MM update
16 4019 9b04 4 0 4 1 0 62K MM
101 ab 20304 0 898 2 1 50 135K Group
102 ab 20304 0 882 0 1 49 135K Group
103 ab 20304 0 2417 0 2 202 135K Group
--more--
--pid --pc- ---sp- flag -user --sys-- -group- -count- -size- -recv- command
104 ab 20304 0 1836 0 3 204 135K Group
105 ab 20304 0 1800 0 3 200 135K Group
```

A:B:C = 99: 202 : 404 = 1 : 2,04 : 4,08