Operációs rendszerek Bsc

7.gyak 2021.03.24

> Készítette: Szabó Bálint Bsc Programtervező informatikus EJX162

1. feladat RR nélkül

	A process		B process		C process		D process		Reschedule	
Clock tick	p_uspri	p_cpu	p_uspri	p_cpu	p_uspri	p_cpu	p_uspri	p_cpu	running before	running after
Starting point	60	0	60	0	60	0	60	0	Α	Α
1	60	1	60	0	60	0	60	0	Α	Α
									Α	Α
99	60	99	60	0	60	0	60	0	Α	Α
100	73	50	60	0	60	0	60	0	Α	В
101	73	50	60	1	60	0	60	0	В	В
199	73	50	60	99	60	0	60	0	В	В
200	66	25	73	50	60	0	60	0	В	С
201	66	25	73	50	60	1	60	0	С	С

 $p_cpu = 100/0,5 = 50$

 $p_uspri(1) = P_usering P$

 $p_uspri(2) = P_user + 25 / 4 + 2 * p_nice = 66$

RR-rel

	A process		B process		C process		D process		Reschedule	
Clock tick	p_uspri	p_cpu	p_uspri	p_cpu	p_uspri	p_cpu	p_uspri	p_cpu	running before	running after
Starting point	60	0	60	0	60	0	60	0	Α	Α
1	60	1	60	0	60	0	60	0	Α	Α
									Α	Α
9	60	9	60	0	60	0	60	0	Α	Α
10	60	10	60	0	60	0	60	0	Α	В
19	60	10	60	9	60	0	60	0	В	В
20	60	10	60	10	60	0	60	0	В	С
29	60	10	60	10	60	9	60	0	С	С
30	60	10	60	10	60	10	60	0	С	D
39	60	10	60	10	60	10	60	9	D	D
40	60	10	60	10	60	10	60	10	D	Α
50	60	20	60	10	60	10	60	10	Α	В
60	60	20	60	20	60	10	60	10	В	С
70	60	20	60	20	60	20	60	10	С	D
80	60	20	60	20	60	20	60	20	D	Α
90	60	30	60	20	60	20	60	20	Α	В
100	67	26	67	26	64	17	64	27	В	С
199	67	46	67	46	64	37	64	46	D	D
200	70	39	70	39	68	31	70	40	D	Α
201	70	40	70	39	68	31	70	40	Α	Α

100. óraütésnél:

• KF = 2*FK / 2*FK + 1 = (2*3) / (2*3+1) = 0.85

• A p_cpu = 30 * 0.85 = 26 A p_uspri = 60 + (26/4) = 67

• B p_cpu = 30 * 0.85 = 26 B p_uspri = 60 + (26/4) = 67

• C p_cpu = 20 * 0.85 = 17 C p_uspri = 60 + (17/4) = 64

• D p_cpu = 20 * 0.85 = 17 D p_uspri = 60 + (17/4) + 10 = 74

200. óraütésnél:

• KF = 2*FK / 2*FK+1 = (2*3) / (2*3+1) = 0.85

• A p_cpu = 30 * 0.85 = 39 A p_uspri = 60 + (26/4) = 70

• B p_cpu = 30 * 0.85 = 39 B p_uspri = 60 + (26/4) = 70

• C $p_cpu = 20 * 0.85 = 31$ C $p_uspri = 60 + (17/4) = 68$

• D p_cpu = 20 * 0.85 = 40 D p_uspri = 60 + (17/4) + 10 = 70

2. feladat

