Operációs rendszerek BSc

7.gyak. 2021. 02. 24.

Készítette:

Mészáros Ákos Mérnök Informatikus

BFNA2X

Sajólád, 2021

1. Határozza meg az ütemezést RR nélkül és az ütemezést RR-nal - külön-külön táblázatba.

a. RR nélkül

RR nélkül	A process		B process		C process		D process		Reschedule	
Clock tick	p_pri	p_cpu	p_pri	p_cpu	p_pri	p_cpu	p_pri	p_cpu	Running before	Running afte
Starting point	60	0	60	0	60	0	60	0	-	A process
1	60	1	60	0	60	0	70	0	A process	A process
100	60	100	60	0	60	0	70	0	A process	B process
101	85	50	60	1	60	0	70	0	B process	B process
,										***
200	85	50	60	100	60	0	70	0	B process	C process
201	72	25	85	50	60	1	70	0	C process	C process
300	72	25	85	50	60	100	70	0	C process	A process
301	66	13	72	50	85	50	70	0	A process	A process
400	66	112	72	50	85	50	70	0	A process	B process
401	86	56	66	13	72	50	70	0	B process	B process
500	86	56	66	112	72	50	70	0	B process	C process
501	73	26	86	53	66	13	70	0	C process	C process
600	73	26	86	53	66	112	70	0	C process	A process
601	66	14	73	26	86	56	70	0	A process	B process
602	-	-	66	14	73	26	70	0	B process	C process
603	-	-	-	1341	66	14	70	0	C process	D process
604	¥	-	-	0.41	-	-	70	1	D process	D process
		···1				u.,				
700	-	-	-	-	-	-	70	97	D process	D process
701	-	-	-	-	-	-	94	49	D process	D process
800	-	-	-	-	-	-	94	148	D process	D process
801	-	-	-	-	-	-	107	75	D process	D process
802	-	-	-	-	-	-	107	76	D process	D process
803	_			12			107	77	D process	-

b. RR-t használva

RR használva A process		B process		C process		D process		Reschedule		
Clock tick	p_pri	p_cpu	p_pri	p_cpu	p_pri	p_cpu	p_pri	p_cpu	Running before	Running after
Starting point	60	0	60	0	60	0	60	0	-	A process
1	60	1	60	0	60	0	70	0	A process	A process
10	60	10	60	0	60	0	70	0	A process	B process
20	60	10	60	10	60	0	70	0	B process	C process
30	60	10	60	10	60	10	70	0	C process	A process
40	60	20	60	10	60	10	70	0	A process	B process
50	60	20	60	20	60	10	70	0	B process	C process
60	60	20	60	20	60	20	70	0	C process	A process
70	60	30	60	20	60	20	70	0	A process	B process
80	60	30	60	30	60	20	70	0	B process	C process
90	60	30	60	30	60	30	70	0	C process	A process
100	60	40	60	30	60	30	70	0	A process	B process
110	70	20	67	25	67	15	70	0	B process	C process
120	70	20	67	25	67	25	70	0	C process	B process
130	70	20	67	35	67	25	70	0	B process	C process
140	70	20	67	35	67	35	70	0	C process	B process
150	70	20	67	45	67	35	70	0	B process	C process
160	70	20	67	45	67	45	70	0	C process	B process
170	70	20	67	55	67	45	70	0	B process	C process
180	70	20	67	55	67	55	70	0	C process	B process
190	70	20	67	65	67	55	70	0	B process	C process
200	70	20	67	65	67	65	70	0	C process	A process
210	70	20	76	32	76	32	70	0	A process	D process
220	70	20	76	32	76	32	70	10	D process	A process
230	70	30	76	32	76	32	70	10	A process	D process
240	70	30	76	32	76	32	70	20	D process	A process
250	70	40	76	32	76	32	70	20	A process	D process
260	70	40	76	32	76	32	70	30	D process	A process
270	70	50	76	32	76	32	70	30	A process	D process
280	70	50	76	32	76	32	70	40	D process	A process
290	70	60	76	32	76	32	70	40	A process	D process
300	70	60	76	32	76	32	70	50	D process	B process

320 75 30 68 26 68 26 82 25 C process B 330 75 30 68 36 68 36 82 25 B process C 340 75 30 68 46 68 36 82 25 C process B 350 75 30 68 46 68 36 82 25 C process B 350 75 30 68 46 68 46 82 25 C process B 370 75 30 68 46 68 46 82 25 C process B 370 75 30 68 56 68 46 82 25 B process C 380 75 30 68 56 68 46 82 25 B process C 380 75 30 68 56 68 56 82 25 C process B 390 75 30 68 66 68 56 82 25 B process C 390 75 30 68 66 68 56 82 25 C process B 390 75 30 68 66 68 66 82 25 C process C 301 68 66 68 66 82 25 C process A 301 68 16 76 33 76 33 76 12 A process A 301 68 16 76 33 76 33 76 12 A process A	process process process process process process process process process
330 75 30 68 36 68 26 82 25 B process C 340 75 30 68 36 68 36 82 25 C process B 350 75 30 68 46 68 36 82 25 B process C 360 75 30 68 46 68 46 82 25 C process B 370 75 30 68 56 68 46 82 25 B process C 380 75 30 68 56 68 56 82 25 C process B 390 75 30 68 66 68 56 82 25 B process C 400 75 30 68 66 68 66 82 25 C process A 301 68 16 76 33 76 33 76 12 A process <td>process process process process process process</td>	process process process process process process
340 75 30 68 36 68 36 82 25 C process B 350 75 30 68 46 68 36 82 25 B process C 360 75 30 68 46 68 46 82 25 C process B 370 75 30 68 56 68 46 82 25 B process C 380 75 30 68 56 68 46 82 25 C process B 390 75 30 68 66 68 56 82 25 C process B 390 75 30 68 66 68 56 82 25 B process C 3400 75 30 68 66 68 66 82 25 C process A 301 68 16 76 33 76 33 76 12 A process A 301 68 16 76 33 76 33 76 12 A process A 301 68 16 76 33 76 33 76 12 A process A	process process process process process
350 75 30 68 46 68 36 82 25 B process C 360 75 30 68 46 68 46 82 25 C process B 370 75 30 68 56 68 46 82 25 B process C 380 75 30 68 56 68 56 82 25 C process B 390 75 30 68 66 68 56 82 25 B process C 400 75 30 68 66 68 66 82 25 C process A 301 68 16 76 33 76 33 76 12 A process A 301	process process process process
360 75 30 68 46 68 46 82 25 C process B 370 75 30 68 56 68 46 82 25 B process C 380 75 30 68 56 68 56 82 25 C process B 390 75 30 68 66 68 56 82 25 B process C 400 75 30 68 66 68 66 82 25 C process A 301 68 16 76 33 76 33 76 12 A process A	process process process
370 75 30 68 56 68 46 82 25 B process C 380 75 30 68 56 68 56 82 25 C process B 390 75 30 68 66 68 56 82 25 B process C 400 75 30 68 66 68 66 82 25 C process A 301 68 16 76 33 76 33 76 12 A process C	process process
380 75 30 68 56 68 56 82 25 C process B 390 75 30 68 66 68 56 82 25 B process C 400 75 30 68 66 68 66 82 25 C process A 301 68 16 76 33 76 33 76 12 A process	process
390 75 30 68 66 68 56 82 25 B process C 400 75 30 68 66 68 66 82 25 C process A 301 68 16 76 33 76 33 76 12 A process A	
400 75 30 68 66 68 66 82 25 C process A 301 68 16 76 33 76 33 76 12 A process A	process
301 68 16 76 33 76 33 76 12 A process A	process
	process
	process
400 69 115 76 22 76 22 76 12 Aproper	
400 68 115 76 33 76 33 76 12 A process B	process
410 88 57 68 26 68 16 73 6 B process C	process
420 88 57 68 26 68 26 73 6 C process B	process
430 88 57 68 36 68 26 73 6 B process C	process
440 88 57 68 36 68 36 73 6 C process B	process
450 88 57 68 46 68 36 73 6 B process C	process
THE RESERVE OF THE PARTY OF THE	process
470 88 57 68 56 68 46 73 6 B process C	process
480 88 57 68 56 68 56 73 6 C process B	process
490 88 57 68 66 68 56 73 6 B process C	process
500 88 57 68 66 68 66 73 6 C process D	process
501 74 28 76 33 76 33 71 4 D process D	process
600 74 28 76 33 76 33 71 103 D process A	process
610 67 24 68 16 68 16 105 51 A process B	process
620 68 26 68 16 105 51 B process C	process
630 68 26 68 26 105 51 Cprocess B	process
640 68 36 68 26 105 51 B process C	process
	process
	process
	process
	process
800 105 150 D process	

2. Írjon magyarázatot a következő függvényekre:

- a. open(): a stringként megadott útvonalból beolvassa a fájlt, író, olvasó vagy író/olvasó módban. Ha sikeres, akkor visszatér az olvasási folyam azonosítójával, ha sikertelen -1-el.
- **b. read():** a függvény attribútumaként megadott stringbufferba beolvas adott mennyiségű karaktert (vagy kevesebbet, ha a fájl hamarabb véget ér). a visszatérési érték vagy a beolvasott byteok száma, vagy sikertelen olvasás esetén -1.
- c. lseek(): a kurzor mozgatásra használt függvény
- **d. write():** az adott stringbufferből kiír adott mennyiségű karaktert a kurzor jelenlegi pozíciójától kezdve
- e. close(): bezárja az adatfolyamot