# OS project1 report

# 第六組

#### 1. 設計

We can't get time with resolution of nanosecond. The resolution of time is microsecond. Therefore; the start time of all processes FIFO\_1 are the same.

2. 執行範例測資的結果

# FIFO\_1

```
[18632.570782] [project1] 29796 1526407858.499512 1526407859.740346 [18633.861505] [project1] 29797 1526407858.499512 1526407861.32100 [18635.233573] [project1] 29798 1526407858.499512 1526407862.405271 [18636.526460] [project1] 29799 1526407858.499512 1526407863.699194 [18637.810470] [project1] 29800 1526407858.499512 1526407864.984241
```

### FIFO\_2

```
P1 30111 [21690.390663] [project1] 30111 1526410699.549142 1526410920.20305
P2 30112 [21703.794005] [project1] 30112 1526410699.800157 1526410933.433812
P3 30113 [21706.497437] [project1] 30113 1526410700.49367 1526410936.140032
P4 30114 [21709.143019] [project1] 30114 1526410700.300053 1526410938.787746
```

#### FIFO 3

```
[19148.571400] [project1] 29885 1526408354.154776 1526408376.156044 [19162.558621] [project1] 29886 1526408354.669106 1526408390.154571 [19170.612384] [project1] 29887 1526408354.924122 1526408398.214813 [19173.427294] [project1] 29888 1526408355.188319 1526408401.31973 [19176.289292] [project1] 29889 1526408355.491183 1526408403.896271 [19179.050833] [project1] 29890 1526408355.491183 1526408406.660051 [19190.192345] [project1] 29891 1526408355.751237 1526408417.810529
```

#### SJF 1

P1	29958	[19777.924730]	[project1]	29959	1526409000.587762	1526409006.15733
P2	29959	[19780.724210]	[project1]	29960	1526409000, 843603	1526409008.817465
		-				
Р3	29960	[19791 282517]	[project1]	29961	1526409001.93382	1526409019 384289
P4	29961	[19811.827160]	[project1]	29958	1526409000 587762	1526409039.945416
		[13011.02/100]	[blo]cctl]	27770	1320103000.301102	1320103033.313110

### SJF\_2

P2 30355	24376.189455] [project1] 30355 1526413607.730642 1526413607.979841
P4 30356	[24376.710336] [project1] 30359 1526413607.981132 1526413608.501146
P1 30357	24387.333510] [project1] 30356 1526413607.730642 1526413619.132892
P3 30358	[24398.033672] [project1] 30358 1526413607.981132 1526413629.841664
P5 30359	24416.569721] [project1] 30357 1526413607.981132 1526413648.392530

### SJF 3

```
30544
                              [project1] 30544 1526414216.581955 1526414225.52025
              24992.765558]
P2 30545
                              [project1]
[project1]
[project1]
              24992.843136]
                                           30547 1526414216.831066 1526414225.129659
P3 30546
              [24992.868812]
                                           30548 1526414216.831066 1526414225.155362
P4 30547
                                           30549 1526414217.79907 1526414236.94850
              [25003.799595]
Р5
   30548
                                           30550 1526414217.327732 1526414247.134874
30545 1526414216.581955 1526414261.439145
              25014.830656]
                              [project1]
   30549
              [25029.123458]
                              [project1]
   30550
              [25049.057283]
                              [project1]
                                           30546 1526414216.581955 1526414281.389029
   30551
                                           30551 1526414217.575263 1526414306.183613
              25073.831949]
                              [project1]
```

```
[19309.309667] [project1] 29917 1526408529.317407 1526408537.23653
[19320.670701] [project1] 29916 1526408525.925425 1526408548.393858
[19338.398508] [project1] 29915 1526408523.182278 1526408566.135914
[19360.284721] [project1] 29914 1526408519.517874 1526408588.39748
```

# PSJF\_2

- 1	_	
_	P1 29946	[19564.222066] [project1] 29947 1526408789.533280 1526408792.141153
_	P2 29947	[19569.149424] [project1] 29946 1526408786.695139 1526408797.72450
_	P3 29948	[19579.690548] [project1] 29949 1526408802.201800 1526408807.622081
_	P4 29949	[19583.302404] [project1] 29950 1526408808.406777 1526408811.236843
	P5 29950	[19588.330029] [project1] 29948 1526408792.76786 <u>1</u> 1526408816.268518

# PSJF\_3

P1 30017	[20434.178960]	[project1]	30018	1526409661.485812	1526409662.797956	
P2 30018	[20435.548521]	[project1]	30019	1526409662.839020	1526409664.168620	
P3 30019	[20437.112474]	[project1]	30020	1526409664.212833	1526409665.733812	
P4 30020	[20441.412413]	[project1]	30017	1526409660.150801	1526409670.37228	

# RR\_1

P1 29995	[20326.283910] [project1] 29995 1526409553.553410 1526409554.816076
P2 29996	[20327.655665] [project1] 29996 1526409553.553410 1526409556.188932
P3 29997	[20329.011881] [project1] 29997 1526409553.553410 1526409557.546266
P4 29998	[20330.311832] [project1] 29998 1526409553.553410 1526409558.847263
P5 29999	[20331.605642] [project1] 29999 1526409553.55341 <u>0</u> 1526409560.142113

### RR\_2

Ρ:	L 30968	[26335.198585] [project1] 30968 1526415549.989294 1526415568.565066	ļ
P	2 30969	[26340.489345] [project1] 30969 1526415550.48617 <u>0</u> 1526415573.860043	

### RR\_3

P1 31380	[27479.543429] [project1] 31380 1526416669.158449 1526416713.830558
P2 31381	[27483.926361] [project1] 31382 1526416675.887950 1526416718.217003
P3 31382	[27487.690219] [project1] 31381 1526416672.672430 1526416721.983891
P4 31383	[27508.486810] [project1] 31385 1526416681.626306 1526416742.797208
P5 31384	[27513.696208] [project1] 31384 1526416680.58586 1526416748.10601
P6 31385	[27516.284128] [project1] 31383 1526416679.30166_1526416750.600790

3. 比較實際結果與理論結果,並解釋造成差異的原因

In any testing data, Pi STs equal to Ri.

In any testing data, every ETs are in expected order.

4. 各組員的貢獻

簡暐晉:write src code, compile kernel, run testing data, discuss how to write report. 周明德:discuss how to write src code, write report.

沙佳哲:none

劉昕:none