Fundamentals of Parallel systems

Lab Book

Conner Weatherston (40167111)

Exercise 2-1

Channel 2

Consumer

Channel 1

Multiplier

Producer

Output.

next: 20

next: Calculated 80

10

next: Calculated 40

5

next: Calculated 20

Exercise 2-2

Channel 2

Channel 1

ListToStream

CreateSetsOfN

GenerateSetsOfThree

What change is required to output objects containing six integers?

* Change the for loop in the CreateSetsOfN to print out in a list of 6 instead of a list of 8.

How could you parameterise this in the system to output objects than contain any number of integers.

* Create a variable to store what the size of the list is to be outputted.

What happens if the number of integers required in the output stream is not a factor of the total number of integers in the input stream?

* The program omits the remainder of the set that would be printed and cannot terminate.

Output.

Eight Object is [1, 2, 3, 4]

Eight Object is [5, 6, 7, 8]

Eight Object is [9, 10, 11, 12]

Eight Object is [13, 14, 15, 16]

Eight Object is [17, 18, 19, 20]

Eight Object is [21, 22, 23, 24]

Finished

Exercise 3-1