# Assignment 4: Definition of Supply Table and Production Table for the production of different batches of products in the same section

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## 1. <u>VSM</u>

We added the following VSM as a scheme of the production model.

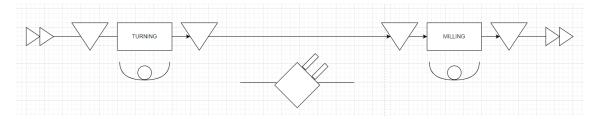


Figure 1. VSM of the model.

## 2. FXS Model

Figure of the structure of the model.

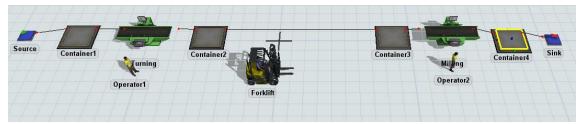


Figure 2. Model in FXS

## 3. Source

We need to create an arrival sequence that achieve the table of the instructions.

	Batch	Setup-	Turning	Setup-	Milling
		Turning		Milling	
1	7.00	15.00	7.00	12.00	8.00
2	4.00	10.00	8.00	8.00	6.00
3	10.00	8.00	5.00	6.00	9.00
4	8.00	10.00	10.00	10.00	4.00

Figure 3. Production table of the instructions

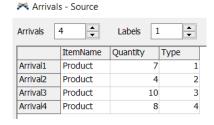


Figure 4. FXS Arrival Sequence

Also, we create a trigger on creation>set color by case for the different four products.

#### 4. Global Table

We need to create a global table to define the different times of the different operations and other specifications, so that we can read on the different parts of the production line and work as the instructions describe

	Item	Batch Size	SetUp-Turnin	Turning	SetUp-Milling	Milling
Row 1	1	7	15	7	12	8
Row 2	2	4	10	8	8	6
Row 3	3	10	8	5	6	9
Row 4	4	8	10	10	10	4

Figure 5. Global Table with the production details

# 5. Turning and milling times

In order to choose the different set up times and operation times, both operations need to read the data from the GlobalTable created before with the get function. In the following pictures it is defined and specified the use of the function.

For the setup time we have to define the batch processing in the same way.

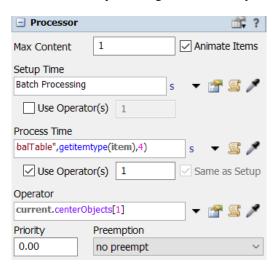


Figure 6. Turning times.

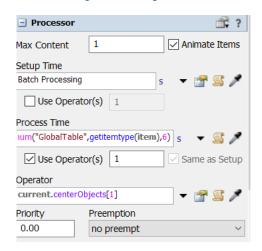


Figure 7. Milling times

#### 6. Containers

To adapt the size of the container to the patch size we create a trigger on entry with the code that the teacher had supplied.

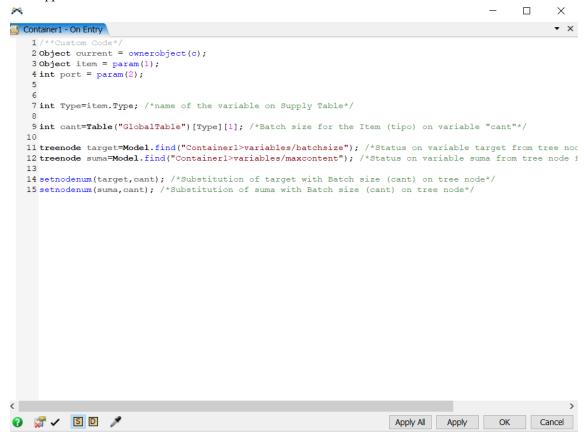


Figure 8. Code personalized