## Parallel Routing Setting

Date: 2008-12-23

This documentation will illustrate how to set parallel routing operation in the Baan V

I   Introduction
In the BaaN V, the parallel routing operation can be carried out by adding phantom item into the BOM, please noted that you can only go this way to set the parallel routing operation in the BaaN V which we call it as Network Routing Operation.

## II   How to setting Parallel Routing Operation
In order to understand this way clearly we will build a BOM as below for example:
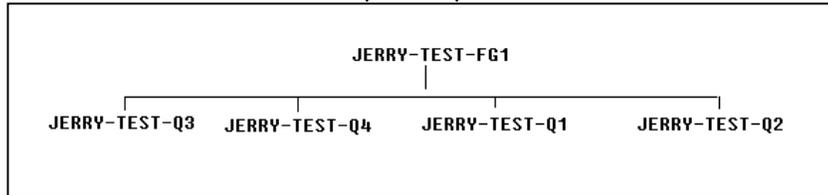
Item Code	Type	Phantom	UOM	
JERRY-TEST-FG1	M	N	1	
JERRY-TEST-Q3	P	N	1	
JERRY-TEST-Q4	P	N	1	
JERRY-TEST-Q1	P	N	1	
JERRY-TEST-Q2	P	N	1	

The routing operation as below:

Operation	Description	Production Rate(/hour)	Cycle Time (min)		Next Operation
Operation10	Pre-Assembly	1	60	Parallel	40
Operation20	Punching	3	20		30
Operation30	Bending	1.2	50		40
Operation40	Assembly	1	60		—
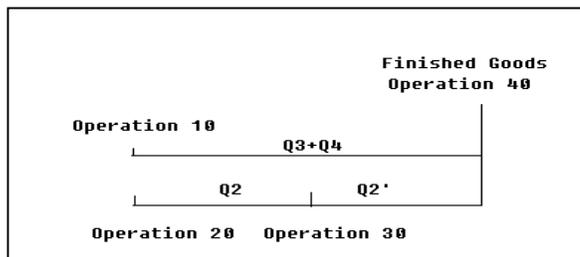
Actually this is a single level BOM if we did not consider the parallel routing operation 10 and 20, for set them as parallel processing, we need to create two phantom items to cut this single operation line as two different lines, so the BOM should be modified as below:
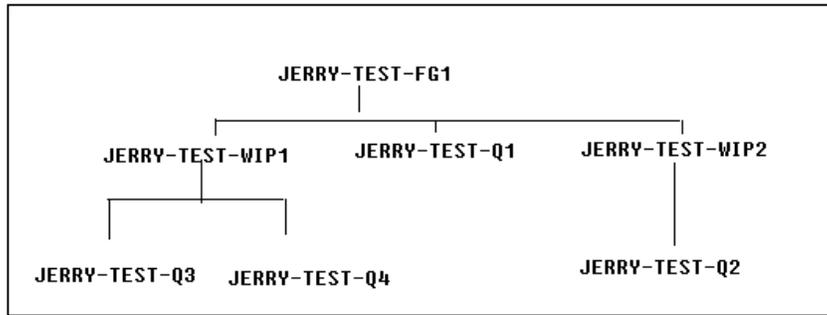
Item Code	Type	Phantom	UOM	
JERRY-TEST-FG1	M	N	1	
JERRY-TEST-WIP1	M	Y	1	
JERRY-TEST-WIP2	M	Y	1	
JERRY-TEST-Q1	P	N	1	
JERRY-TEST-Q2	P	N	1	
JERRY-TEST-Q3	P	N	1	

After build this BOM in the system, we also need to build the routing operation for this two phantom manufactured parts.
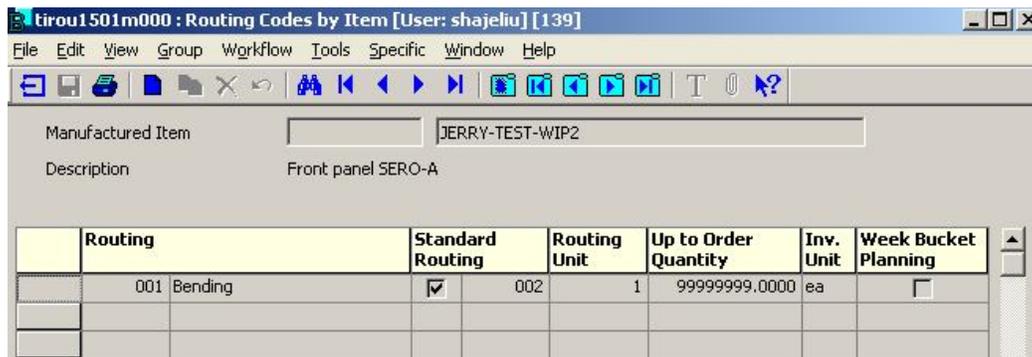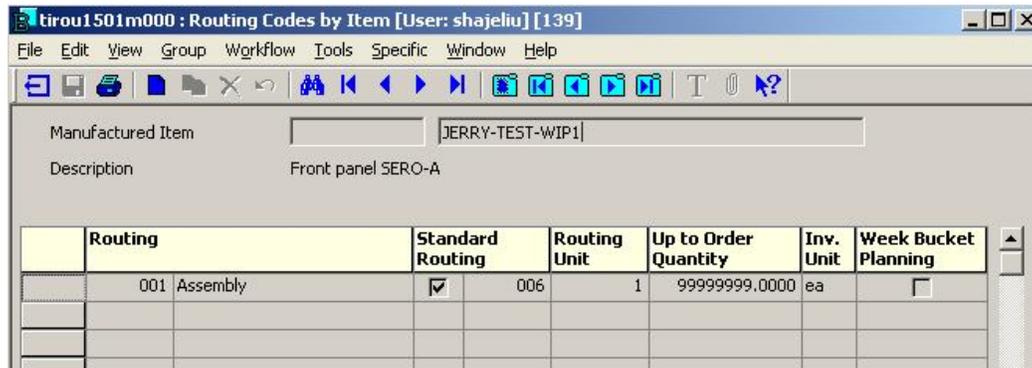
	Operation		Task		Description	Work Center	Mach.	Effect. Date	Expiry Date	Oper. Text	Task Text
	10	/	1	1000	PUNCHING	W13901		13-06-08		☐	☐
	20	/	1	1200	BENDING 220 TON	W13906		13-06-08		☐	☐

And for FG we have:

Then we can create a production order for item JERRY-TEST-FG1:

After calculated by system, the requested delivery date is at 16:23 on 23-12-08 based on the start date and the planning method.

You can calculate by yourself to check this result which should be read from the operation duration as 60min+(20min+50min) or you can see as 60+60+10, remember that we have a parallel operation happened at operation 10 and 20, so here will be different with the duration 60min+20min+50min+60min when single level BOM

So now, let us to check the Production Planning after we created this production order 139N00174.

In this screenshot, we can see that the field 'Next Operation' has been fulfilled by system automatically, noted that it's not created manually, that's why you can not get the parallel operation by the way you did.

The operation 210 and 220 is for item JERRT-TEST-Q2, the operation 220 is for the item JERRY-TEST-Q3 and JERRY-TEST-Q4, this two parts have the same next operation 10 where they are combined together to the finished goods.