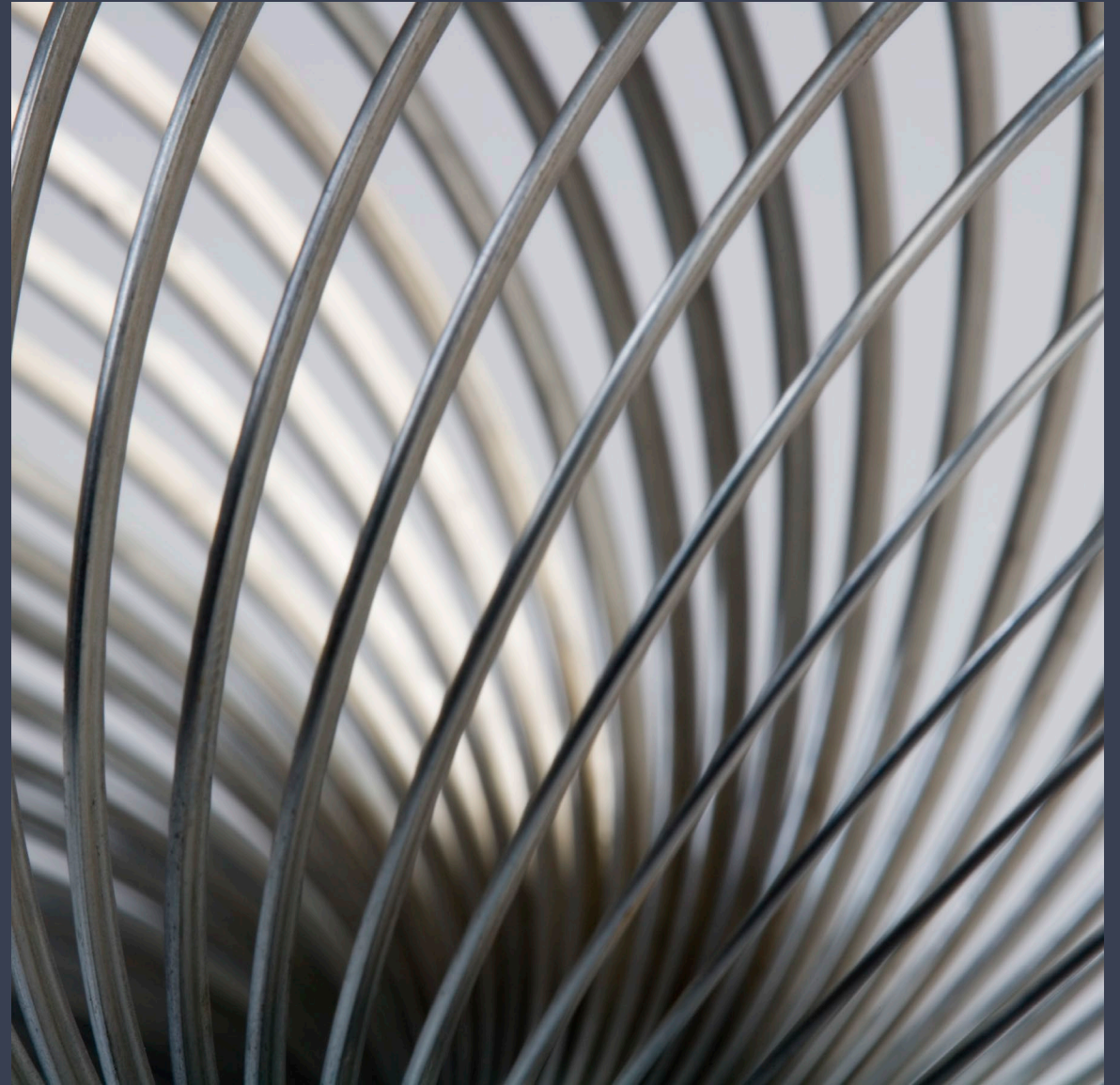


NUGM 2024

BILLS, BILLS, BILLS!!

(Or, How I learned to Stop Worrying
and Figured Out It's Just How You
Put Stuff Together.)

TREY MILLER NOVOROI SYSTEMS, LLC



THE MANUFACTURING BILL OF MATERIAL

- This is one of the main pillars of all ERP systems.
- At its very basic level, the Bill of Material (BOM), details how a finished good is made.
 - Discreet Manufacturing – hard edges, nuts and bolts, “weldments”, quantities per assembly (QPA).
 - Process Manufacturing – fluid mixture, recipes, chemical assay, volumetric measures per compound.
- Critical Manufacturing features of BOMS . . . Well, almost everything! But here’s some big ones.
 - Planning – Without properly defined BOMS, the “R” in both MRP and ERP has no meaning.
 - Costing – The costs established by quantities per assembly and labor to assemble are driven by the BOM.
 - Routings – How a finished good is built is frequently determined from the lowest level of its BOM on up.
 - Work Centers – Hand in glove with Routings, major work center design considerations are driven by the manufacturing realities of similar BOMs.
 - So many others (Engineering, Purchasing, Shipping and Receiving. . . etc.), almost every critical aspect of a manufacturing system touches on the Bill of Material in some fashion. Bills are important!



WHO'S YOUR DADDY?

- The nature of the Bill of Material is like a family tree in that it is a hierarchy.
- The finished good is called the “top level” part, and that is the zero (0) level.
- Each “child” part under the top level is level 1, and has a parent which is the top level 0.
- Each child part under level 1 is level 2 and has a parent part which is level 1.
- So on and so on:
 - Finished Good
 - Level 1 Part A
 - Level 2 A child 1
 - Level 2 A child 2
 - Level 1 Part B
 - . . . The “Lowest Level” is important. That is called the Low Level Code (LLC)
- Here's where it gets weird. Those “children” are actually components and they can have multiple “Parents” because they can all be utilized to make multiple finished goods.



THE MANAGE 2000 SHOW.PS – MLB - SLB

- SHOW.PS is the primary function, you can actually run it independently. This is the M2k method for display of the critical bill relationship between Parent and Child assemblies.
- SLB – Single Level Bill, very handy for looking at an immediate parent – child assembly list.
- MLB – Shows the root hierarchy in an indented display. Each Child is indented from its Parent.



Little Used OPTIONS!!

1. Bills or Where Used (WU)

4. Engr, Cost, Prod, Usage
(or Custom Sub)

5. Custom Sub Name

6. Cost Data Set

8. WU – End Items Only

9. Effective as of – ECO system

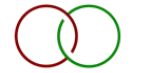
Item Numbers	Entries
.01) 109 01 System Pentium 600MHz 15"	1
.02)	
.03)	
.04)	

13.2 Enter Item Number, TOP



SHOW.PS

SHOW.PS 11:37 CDT Tue May 14 2024 ACME Bomb Making INC Sys M2K81SP2 Acct roi:LAB.MASTER																					
Multi-Level Manufacturing Bills of Material - Engineering Data Report																					
For Part Number: 109I01 System Pentium 600MHz 15" - Effective as of 05-14-2024																					
Level	Item Number	Description	Qty/Assy	Trap	UM	Engr Status	Rev Lvl	Lead Time Offset	RT Seq	ECO Nbr	ECO Date	Note Reference	Reference Designator	Inv Type	Bal Nbr	Scrap Prct	Make Purch	Phant Code	Bin Code	PS Type	Lc
0.....	109 01	System Pentium 600MHz 15"			EA	D	AM							FA			M				
1.....	201 01	Processor Pentium 700 MHz	0.000		EA	C					09-15-94			CM			P				
1.....	210 01	RAM, Simm, 64 MB	2.000		EA	C					09-15-94			CM			P				
1.....	216 01	Power Supply, 400 W	1.000		EA	C					09-15-94			CM			P				
1.....	220 01	Keyboard 104 Standard	1.000		EA	C					09-15-94			CM			P				
1.....	240 01	Mouse, Two-button	1.000		EA	C					09-15-94			CM			P				
1.....	251 01	Cable, Power	1.000		EA	C					09-15-94			CM			P				
1.....	310 01	Kit, CD-ROM	1.000		EA	C	AM				09-15-94			SA			M	P			
2.....	204 01	Cable, CD-ROM	1.000		EA	C								CM			P				
2.....	214 01	Controller CD-ROM	1.000		EA	C								CM			P				
2.....	218 01	Manual, Installation	1.000		EA	C								CM			P				
2.....	285 01	CD-ROM Drive Speed	1.000		EA	C								CM			P				
1.....	316 01	Case, Full Size Chassis	1.000		EA	C	AM				09-15-94			SA			M				
2.....	259 01	Screw, Machine, 1/4 inch	5.000		EA	C								CM			P			B	
2.....	276 01	Bezel, Plastic, full	1.000		EA	C								CM			P				
2.....	301 01	Chassis, Full	1.000		EA	C	CM							FM			M				
3.....	259 01	Screw, Machine, 1/4 inch	4.000		EA	C			30					CM			P			B	
3.....	290 01	Steel, Sheet, 18 Gauge	0.000		SF	C			10	1003	09-29-94			RM			P				
3.....	305 01	Bracket, Drive, Full	1.000		EA	C	CM		30					FM			M				
4.....	290 01	Steel, Sheet, 18 Gauge	0.000		SF	C			10	1004	09-29-94			RM			P				
4.....	350 01	Steel Slit Coil 18 Ga 5"	1.220		LB	C	AM			1004	09-29-94			SA			M				
5.....	299 01	Steel Coil 18Ga 60 in	1.000		LB	C				1002	09-29-94			CM			P				
3.....	352 01	Steel Slit Coil 18 Ga 18"	11.250		LB	C	AM			1003	09-29-94			SA			M				
4.....	299 01	Steel Coil 18Ga 60 in	1.000		LB	C				1002	09-29-94			CM			P				
2.....	308 01	Cover, Full Size Chassis	1.000		EA	C	AM							FM			M				
3.....	308-1 01	Cover, Full Size, Formed	1.000		EA	C	AM							FM			M				
4.....	290 01	Steel, Shef, 18 Gauge	3.431		SF	C			10					RM			P				
3.....	325 01	Paint, Almond	0.750		OZ	A								CM			P				2
1.....	340 01	Kit 8 GB Disk Drive	1.000		EA	C	AM				09-15-94			SA			M				
2.....	203 01	Cable, Disk Drive	1.000		EA	C								CM			P				
2.....	218 01	Manual, Installation	1.000		EA	C								CM			P				
2.....	270 01	Controller, Disk, IDE	1.000		EA	C								CM			P				



BASIC SETUP



BILLS – BASIC SETUP – COMPANY.NAME - QPA

localhost - roi:LAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools ProcessOpts Help

General Company Information and Controls (Part 2) "CHG" Mode

01 Product Name	Manage 2000	19 *Cost Decimals	3
02 Main Login Account	MANAGE-2000.8.0	20 *Price Decimals	3
03 Default Menu Name		21 *Qty Per Assy Decimals	3
04 Menu Security	N	22 *Sales Qty Decimals	0
05 Function Security	N	23 QPA Display Decimals	3
06 ECL Security	Y	24 ACTION.1 Hold Days	
07 Menu Logo Graphic	M2KLogo.gif	25 Cross Reference Logic	N
08 Default Co Number	01	26 Global Trans Def Save	
09 Multiple Co's on GL	Y	27 Default Fax Logo	
10 Default Module Code		28 Fax Cover Sheet	STANDARD
11 *User Control File		29 Company Name on Forms	Y
12 *Input Sub Name		30 Name Control Codes	U14
13 Input Sub Interval		31 Address Control Codes	U14
14 Run Address Lookup	Y	32 Extra Address Spacing	20
15 Addr Case Convert	M	33 Save Trans Def Records	
16 *International Chars			
17 FTS File Name	_HOLD_		
18 FTS Overwrite	N		

Change Which Field, END, TOP, \P

User roi:LAB.MASTER, PID 0020 on localhost 0 Ins

- The QPA decimals are referred to as QDEC in the M2k system.
- This is an initial setup constant as dictated by the "*" next to the prompt #.
- Generally you do NOT want to change these significant digits, but it can be done.



BILLS - BASIC SETUP - GL.COA.MAINT

localhost - roi:LAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Attachments Tools ProcessOpts MSO Help

GL.COA.MAINT - Create, Maintain GL Chart of Accounts "CHG" Mode

01 Account Number

02 Description

03 Record Type

04 Balance Type

05 AP Type Code


06 Inactive Date

07 Allocation Flag

08 Valid Source Codes Entries 0

.01)	<input type="text"/>
.02)	<input type="text"/>
.03)	<input type="text"/>
.04)	<input type="text"/>
.05)	<input type="text"/>
.06)	<input type="text"/>
.07)	<input type="text"/>
.08)	<input type="text"/>

09 Ledger Summary


Ledger Summary
Accounts

Change Which Field, END, TOP, \P, 'A' llocation Data

✓ ✕ * User roi:LAB.MASTER, PID 0020 on localhost 0 Ins



BILLS – BASIC SETUP – BM.CONSTANTS

localhost - roi:LAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools ProcessOpts Help

BM.CONSTANTS Bill of Material Parameters "CHG" Mode

01	*Historical Bill ID Type	<input type="text" value="D"/>	10	Dup. Table for DUP.ITEM	<input type="text" value="1"/>
02	Save Routings with Historical Bills	<input type="text" value="Y"/>	11	Nbr. Lines Ext. Desc.	<input type="text"/>
03	Double Space SHOW.PS Reports	<input type="text" value="N"/>	12	Ref. Des. Sort Sequence	<input type="text"/>
04	Print Full Item Desc in SHOW.PS	<input type="text" value="Y"/>	13	Multiple ENG Changes	<input type="text"/>
05	Maintain Alternate Description Xref	<input type="text"/>	14	Multiple Synonym Parts	<input type="text"/>
06	Alternate Cross-reference Separator	<input type="text"/>	15	Unique Balloon Numbers	<input type="text"/>
07	Default Weight Unit of Measure	<input type="text" value="LB Pound"/>			
08	Default Volume Shipping U/M	<input type="text" value="CF Cubic Foot"/>			
09	*Item Deletion No-activity Days	<input type="text"/>			

16	Engr Revs	.01).	02).	.03).	04).	.05).	06).	.07).	08).	.09).	10).	.11).	12).	.13)	Entries	26
		<input type="text" value="AE"/>	<input type="text" value="BE"/>	<input type="text" value="CE"/>	<input type="text" value="DE"/>	<input type="text" value="EE"/>	<input type="text" value="FE"/>	<input type="text" value="GE"/>	<input type="text" value="HE"/>	<input type="text" value="IE"/>	<input type="text" value="JE"/>	<input type="text" value="KE"/>	<input type="text" value="LE"/>	<input type="text" value="ME"/>		
		< <input type="text"/> <input type="text"/> >														

17	Mfg Revs	.01).	02).	.03).	04).	.05).	06).	.07).	08).	.09).	10).	.11).	12).	.13)	Entries	26
		<input type="text" value="AM"/>	<input type="text" value="BM"/>	<input type="text" value="CM"/>	<input type="text" value="DM"/>	<input type="text" value="EM"/>	<input type="text" value="FM"/>	<input type="text" value="GM"/>	<input type="text" value="HM"/>	<input type="text" value="IM"/>	<input type="text" value="JM"/>	<input type="text" value="KM"/>	<input type="text" value="LM"/>	<input type="text" value="MM"/>		
		< <input type="text"/> <input type="text"/> >														

*** Manufactured Item Bill of Material Option ***

18 *Mfg Items need Bill

Change Which Field, END, TOP, \P |.....

User roi:LAB.MASTER, PID 0020 on localhost 0 Ins

- Basic display options for SHOW.PS. These are system wide, for all users.
- Default duplication table for DUP.ITEM.
- Manufacturing Part (as opposed to Purchase part) MUST have a bill of material.



BILLS – BASIC SETUP – COST ROLL – CR.CONSTANTS

localhost - roi:LAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools Help

CR.CONSTANTS Set **COST.ROLLUP** Run Options "CHG" Mode

01	Mach/Labor Times Required in Routing Cost Calcs	<input type="text" value="N"/>
02	Include Setup Costs in Routing Cost Calculations	<input type="text" value="Y"/>
03	COST.ROLLUP is to Wait for Locked Records	<input type="text" value="Y"/>
04	Incremental Outplant Costs Maintained Manually	<input type="text" value="N"/>
05	Roll Labor into Outplant if Seq is Subcontracted	<input type="text" value="Y"/>
06	Manufactured Items Require Labor or Outplant Cost	<input type="text" value="Y"/>
07	Routing Yield Used in Incremental Calculations	<input type="text" value="N"/>
08	Phantom Component Incremental Cost Roll Option	<input type="text" value="R"/>
09	Default Work Center Costing Efficiency Percent	<input type="text" value="1.000"/>
10	Update Incremental Cost if Rolled Cost Incomplete	<input type="text" value="Y"/>
11	Update Rolled Cost if Incremental Cost Incomplete	<input type="text"/>
12	Cost Set for QTY.PRICE.QUOTES Costs	<input type="text" value="1"/>
13	Cost Sets for ITEMS.VENDOR/ITEMS.PUR Cost Update	<input type="text"/>
14	Errors Messages to Suppress	<input type="text"/>

15 *Routing Costs Authorized Logons

<input type="text"/>
<input type="text"/>
<input type="text"/>

Entries 0

-- Custom Option NOT Supported in Std Software --

16 *Decimal Place in % Lbr Burden Fields

Change Which Field, END, TOP, \P |.....

0 Ins

User roi:LAB.MASTER, PID 0020 on localhost

- The Cost Rollup process is one of the most useful automated accounting features of the M2k system and it is entirely dependent upon good BOM design.
- Any feature in the CR.CONSTANTS screen which uses the term “roll” will be directly related to a bill walking operation.



BILLS – BASIC SETUP – OTHER POTENTIAL CONSTANTS

Each of these constant settings are a discussion class in their own regard, but be aware that basic BOM setup cannot be considered complete without investigating these settings for relevance to your manufacturing processes:

- INV.CONSTANTS – Inventory Constants
- COST.CONSTANTS – BOMS are critical to costing and so cost constants affect BOMS
- WC.CONSTANTS – Work Center constants can be used to manage BOMS on the shop floor
- MRP.CONSTANTS – There is no greater impact to MRP than good bill structure
- CONTROL.ACCOUNTS – Setting proper inventory accounts is critical to BOM accounting



BILLS - BASIC SETUP - ITEMS

localhost - roi:LAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Attachments Tools ProcessOpts MSO Help

Items/Parts - Add New Items "CHG" Mode

Item / Part Number	02 Item Description	03 Unit of Measure	Draw
109 01	System Pentium 600MHz 15"	EA Each	
04 Long Item Number			Path
05 Extended Description		Entries 3	
.01)	This system includes: Pentium 600 MHz, 128 MB RAM, 12 GB Disk,		
.02)	3.5 floppy drive, 15in monitor, 400W power supply, and		
.03)	104 key keyboard.		
06 Inventory Type	FA Final Assembly	10 Lead Time Code	M
07 Engr Status	D Design Only	11 Mfg Lead Time	2
08 Item Class	SYS System	12 Pur Lead Time	
09 Sales Prod Code	SYS1 Class 1 System	13 Production Code	
14 Engr Responsibility	1 RJC	19 Superseding Item Number	
15 Revision Level	AM	20 Superseding Item Control	
16 Revision date		21 Engineering Spec	Entries 0
17 Drawing Nbr		.01)	
18 Drawing Size		.02)	

Change Which Field, END, TOP, \P |.....

User roi:LAB.MASTER, PID 0020 on localhost 0 Ins



BILLS - BASIC SETUP - DUP.ITEM

localhost - roiLAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools Options Help

DUP.ITEM - Duplicate Item(s)

01 From Item
[]

02 Type [] 03 Eff.Date [03/01/2000]

04 Duplicate Routing

05 Duplicate Bill

06 Eff.Date [03/01/2000]

07 Duplicate Objects

08 Number of Copies []

09 Dup. Table Number []

10 New Items

.01) []
.02) []
.03) []
.04) []
.05) []
.06) []
.07) []
.08) []
.09) []

Entries 0

1 Enter Item/Part Number to be duplicated, END

User roi:LAB.MASTER, PID 0020 on localhost 0 Ins

- The Effective Date elements of the item duplication process draw on the existing bill of material for the item being duplicated.
- If you are using good engineering effective revision control, then item and bill duplication can be useful to create a copy of a part for a specific timeframe.



BILLS – BASIC SETUP – DEFINE.DUP.FIELDS

localhost - roiLAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools ProcessOpts Help

DEFINE.DUP.FIELDS Define Item Fields to Copy

Table Number

02 Description

	03 File Name	04 Attr #	05 Value #
.01)	IM	1	0
.02)	IM	2	0
.03)	IM	3	0
.04)	IM	4	0
.05)	IM	15	0
.06)	IM	18	0
.07)	IM	19	0
.08)	IM	20	0
.09)	IM	21	0
.10)	IM	22	0
.11)	IM	23	0
.12)	IM	24	0

Entries 39

Change Which Field, END, TOP, \P |.....

User roi:LAB.MASTER, PID 0020 on localhost 0 Ins

- Multiple duplication schemes can be dictated by the table numbers 1 – 9.
- These schemes are arrays of critical Item attributes in the Item Master (IM), Inventory Planning (IPL), and IM.UDEF files which will be duplicated when this table scheme is used.



BILLS – BASIC SETUP – COPY.BILL

localhost - roiLAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools Options MSO Help

COPY.BILL Product Structure Copy

01 BOM Level

02 From Item

109 01	System Pentium 600MHz 15"	EA
--------	---------------------------	----

03 Type **04 Eff.Date**

	05-14-24	
--	----------	--

05 To Item

199 01	Processor Pentium 900MHz	EA
--------	--------------------------	----

06 Type **07 Eff.Date**

	05-14-24	
--	----------	--

OK to Copy (Y/N) .

User roi:LAB.MASTER, PID 0020 on localhost 0 Ins

- Once again, an opportunity to used dates of effectivity can be utilized.
- The effective date BOM being copied from is a point in time (Revision) on the existing bill.
- The effective date of the BOM being copied to is the date that this bill will become useful to the system.



BILL.ENTRY



BILLS - BILL ENTRY - BOM.ENTRY

localhost - roi:LAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools Options Help

Engineering Product Structure Maintenance ADD Mode

01	Parent Item Numbers	Entries	1	Rev Lvl	Engr Stat
	109 01 System Pentium 600MHz 15"			AM	D

Selected Parent and Component

109|01
309-1|01

MISC SUB DEL

04	Parent Item	06	Component Item	08	QPA	09	Dtl Usage	10	Eff Date	11	Ref
SEL	109 01 System Pentium 600M		309-1 01 Cover, Tower, Forme		1.000						
SEL											
SEL											
SEL											
SEL											

9.1 Enter Detail Usage Information(Y,N) None

User roi:LAB.MASTER, PID 0020 on localhost 0 Ins

- **BOM.ENTRY** allows for direct detail information related to QPA to be designated in a useful data entry screen.
- The Enter Detail Usage prompt calls out a secondary screen to detail what is comprised into the QPA total.



BILLS - BILL.ENTRY - BOM.ENTRY - USAGE.DETAIL

localhost - roiLAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools ProcessOpts Help

Product Structure Assembly Detail CHG.NULL Mode

Parent	109 01 System Pentium 600MHz 15"		
Component	309 01 Cover, Tower Chassis		

Std Assy Line (Parent) Component Pick Flag

	07 Detail QPA	08 Rtg Seq	09 Production Station
10 Tot Qpa	2.000 .01)	10	START BUILD
	.02)	20	FINAL BUILD
Sum of Detail QPA's	.03)		
must equal Total QPA	.04)		
	.05)		
Entries 2	.06)		

Change Which Field, END, TOP, \P |.....

User roi:LAB.MASTER, PID 0020 on localhost 1 Ins

- Detail QPA must tie to the final total.
- The routing sequences provide a step by step guide for arriving at the detail QPA values.



BILLS – BILL.ENTRY – SF.BILLS

localhost - roiLAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools MSO Help

SF.BILLS Product Structure Maintenance (CHG,ADD,ADD M,DELS,DELM) "CHG"

	Description	UM
Parent Item Number	109 01 System Pentium 600MHz 15	EA
This system includes: Pentium 600 MHz, 128 MB RAM, 12 GB Disk, 3.5 floppy drive, 15in monitor, 400W power supply, and 104 key keyboard.		
Component Item Number	309 01 Cover, Tower Chassis	EA
Cover for Tower Chassis		
03 Qty per Assembly	2.000	

Change Which Field, END, TOP, \P |.....

User roi:LAB.MASTER, PID 0020 on localhost 0 Ins

- SF.BILLS offers a very quick means for altering QPA.



BILLS!!!

localhost - roi:LAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools ProcessOpts MSO Help

BILLS Product Structure Maintenance (CHG,ADD,ADDM,DELS,DELM,SUB) "CHG"

Description UM Rev Lvl

Parent Part Nbr	109 01	System Pentium 600MHz 15	EA	AM
Component Part Nbr	309 01	Cover, Tower Chassis	EA	AM

03	Quantity per Assembly	2.000	13	Ref Designator	NONE
04	Routing Sequence Nbr	MULT	14	Parent Notes	NONE
05	Scrap Percentage		15	Par/Comp Notes	NONE
06	Due Date Offset Days		16	Usage Detail	YES
07	Start Date Offset Days		17	Eng Chg/Dt Eff	YES
08	Use as Required (Y/N)				
09	Balloon Number				
10	Type Code				
11	Wt/Vol Yield Factor				
12	Note Reference				

19 Change Which Field, TOP, END, \P |...

User roi:LAB.MASTER, PID 0020 on localhost 0 Ins

BILLS - USAGE.DETAIL

localhost - roiLAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools ProcessOpts MSO Help

Product Structure Assembly Detail "ADD" Mode

Parent Item Nbr 109|01 System Pentium 600MHz 15" BOM Rev Level AM

X.Desc This system includes: Pentium 600 MHz, 128 MB RAM, 12 GB Disk,
3.5 floppy drive, 15in monitor, 400W power supply, and
104 key keyboard.

Compo. Item Nbr 309|01 Cover, Tower Chassis BOM Rev Level AM

X.Desc Cover for Tower Chassis

Std Assembly Line (Parent) Component Pick Flag Total QPA 2.000

	09 QPA	10 Rtg Seqs	11 Production Station
.01)	1.000	10	START BUILD
.02)	1.000	20	FINAL.BUILD
.03)			
.04)			
.05)			
.06)			

Entries 2

Change Which Field, END, TOP, \P

User roi:LAB.MASTER, PID 0020 on localhost 1 Ins

- The same usage detail system available in the BOM.ENTRY function with specific relation to only the Parent/Child relationship being operated upon on the primary BILLS screen.



BILLS - EFFECTIVE DATES

localhost - roi:LAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools MSO Help

Engineering Status / Dated Effectivity "ADD" Mode

Parent Item Nbr 109|01 System Pentium 600MHz 15" BOM Rev Level AM
X.Desc This system includes: Pentium 600 MHz, 128 MB RAM, 12 GB Disk,
3.5 floppy drive, 15in monitor, 400W power supply, and
104 key keyboard.

Comp Item Nbr 309|01 Cover, Tower Chassis BOM Rev Level AM
X.Desc Cover for Tower Chassis

-- Engineering Change Orders --

07 Engineering Change Nbr 1001
08 Engineering Change Date 04-14-24

---- Date Effectivity ----

09 Effective Date 04-16-24
10 Non-Effective Date

Change Which Field, END, TOP, \P |.....

✓ ✕ * User roi:LAB.MASTER, PID 0020 on localhost 1 Ins

- The effective date can be used in SHOW.PS to display the state of a bill of material at a specific point in time (revision).
- The Non-Effective date is the point in time that this parent-child relationship is no longer valid to the BOM structure.



BILLS - PARENT NOTES

localhost - roi:LAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools Help

Product Structure Parent Part Nbr Notes "ADD" Mode

Parent Item 109|01 EA Each BOM Rev Level AM

Description System Pentium 600MHz 15"

Ext Desc This system includes: Pentium 600 MHz, 128 MB RAM, 12 GB Disk,
3.5 floppy drive, 15in monitor, 400W power supply, and
104 key keyboard.

06	Note Text	Entries	0
.01)			
.02)			
.03)			
.04)			
.05)			
.06)			
.07)			
.08)			
.09)			
.10)			

6.1 Note Text |.....

User roi:LAB.MASTER, PID 0020 on localhost 1 Ins

- Parent Notes are added to the Item Master (IM) record.



BILLS - PARENT/COMPONENT NOTES

localhost - roiLAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools MSO Help

Product Structure Parent/Component Notes "ADD" Mode

Parent Item Nbr 109|01 System Pentium 600MHz 15" BOM Rev Level AM

X.Desc This system includes: Pentium 600 MHz, 128 MB RAM, 12 GB Disk,
3.5 floppy drive, 15in monitor, 400W power supply, and
104 key keyboard.

Comp. Item Nbr 309|01 Cover, Tower Chassis BOM Rev Level AM

X.Desc Cover for Tower Chassis

07 Parent/Component Notes Entries 0

.01)

.02)

.03)

.04)

.05)

.06)

.07)

.08)

7.1 Note:

User roi:LAB.MASTER, PID 0020 on localhost 1 Ins

- Parent/Component Notes are added to the Product Structure (PS) record.



BILLS - PS TYPE - UNIQUELY POWERFUL!!!

localhost - roi:LAB.MASTER - Manage 2000 - ROI Systems, Inc.

File Edit Commands Scripts Tools ProcessOpts MSO Help

BILLS Product Structure Maintenance (CHG,ADD,ADDM,DELS,DELM,SUB) "ADD"

Description UOM Rev Lvl

Parent Part Nbr 109|01 System Pentium 600MHz 15 EA AM

Component Part Nbr 267|01 Tester, cable EA

03 Quantity per Assembly 1.000

04 Routing Sequence Nbr

05 Scrap Percentage

06 Due Date Offset Days

07 Start Date Offset Days

08 Use as Required (Y/N)

09 Balloon Number

10 Type Code 9

11 Wt/Vol Yield Factor

12 Note Reference

13 Ref Designator

14 Parent Notes

15 Par/Comp Notes

16 Usage Detail

17 Eng Chg/Dt Eff

19 Change Which Field, TOP, END, \P ...

User roi:LAB.MASTER, PID 0020 on localhost 0 Ins

- This field recognizes “blank”, “0”, or “1” for material requirements (MRP) planning but bypasses the parent-component relationship for any user-defined code.
- If this field is blank, all types of bill of materials are valid.
- A user-defined code, which is not validated, indicates a defined product structure type. This is useful for maintaining an accurate bill of materials that includes non-inventoried items. Examples are drawings, sand from a yard pile, tap water, and packaging tape.



QUESTIONS?



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THANK YOU

