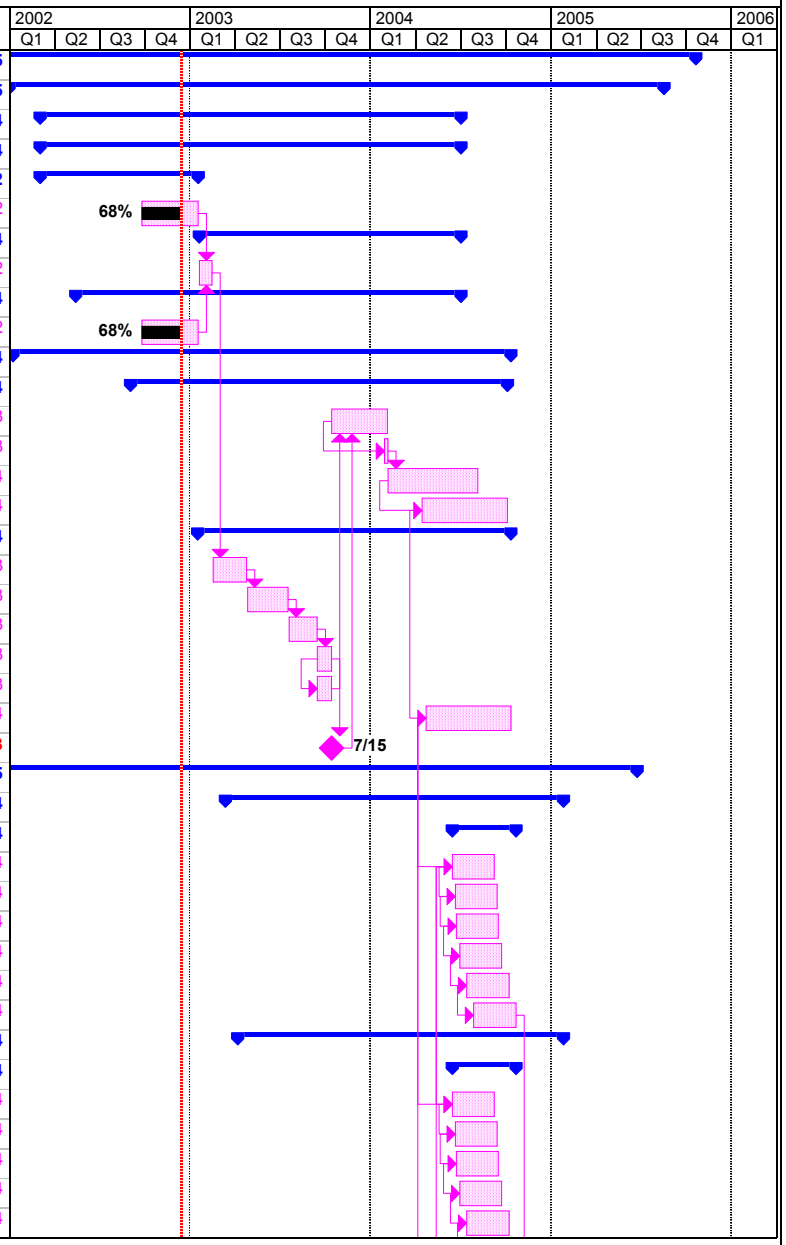
Run IIb Silicon Tracker
Critical Path

ID	WBS	Task Name	Duration	Start	Finish
1	1.1	Run IIb Silicon	239.04 w	10/2/00	7/22/05
105	1.1.2	Readout System	180 w	10/1/01	5/18/05
106	1.1.2.1	SVX4 Chips	115.4 w	12/3/01	4/2/04
107	1.1.2.1.1	SVX4 Chips (at Fermilab)	115.4 w	12/3/01	4/2/04
108	1.1.2.1.1.1	Fermilab R&D Tasks	44 w	12/3/01	10/18/02
111	1.1.2.1.1.1.3	Test SVX4 prototype chips by D0 group	16 w	6/27/02	10/18/02
112	1.1.2.1.1.2	Fermilab Production Tasks	71.4 w	10/21/02	4/2/04
113	1.1.2.1.1.2.1	Develop preproduction chip	4 w	10/21/02	11/15/02
130	1.1.2.1.3	SVX4 Chip Testing and Production MRI Grant	106.4 w	2/13/02	4/2/04
132	1.1.2.1.3.2	Test SVX4 prototype chips MRI	16 w	6/27/02	10/18/02
197	1.1.2.4	L2-L5 Hybrids	136.6 w	10/9/01	7/12/04
204	1.1.2.4.2	MRI Production and Testing of Hybrids	103.6 w	6/4/02	7/5/04
208	1.1.2.4.2.4	Produce hybrids (KU)	16 w	7/16/03	11/5/03
209	1.1.2.4.2.5	Obligate Funds for Hybrid Production (KU)	1 w	10/31/03	11/6/03
212	1.1.2.4.2.8	Stuff and wire-bond hybrids	24 w	11/7/03	5/6/04
213	1.1.2.4.2.9	Perform initial functionality test (MRI)	24 w	1/15/04	7/5/04
215	1.1.2.4.3	Production (Fermilab)	85.4 w	10/18/02	7/12/04
216	1.1.2.4.3.1	Develop preproduction specifications	8 w	11/18/02	1/24/03
217	1.1.2.4.3.2	Procure preproduction	12 w	1/27/03	4/18/03
218	1.1.2.4.3.3	Test preproduction	8 w	4/21/03	6/16/03
220	1.1.2.4.3.5	Develop final specifications	4 w	6/17/03	7/15/03
221	1.1.2.4.3.6	Bid hybrid production	4 w	6/17/03	7/15/03
224	1.1.2.4.3.9	Perform hybrid burn-in test	24 w	1/23/04	7/12/04
225	1.1.2.4.4	Silicon L2-L5 Hybrids Released For Production	0 w	7/15/03	7/15/03
579	1.1.4	Detector Production and Testing	222.44 w	10/2/00	3/25/05
680	1.1.4.14	10/10 Axial Modules	92.84 w	12/13/02	10/27/04
682	1.1.4.14.2	South	18.2 w	3/16/04	7/23/04
684	1.1.4.14.2.2	Align and glue sensors to hybrid	12 w	3/16/04	6/9/04
685	1.1.4.14.2.3	Wirebond sensors to hybrid	12 w	3/22/04	6/15/04
687	1.1.4.14.2.5	Debug sensor module	12 w	3/24/04	6/17/04
688	1.1.4.14.2.6	Burn-in sensor modules	12 w	3/31/04	6/24/04
689	1.1.4.14.2.7	Evaluate and repair sensor modules	12 w	4/14/04	7/9/04
690	1.1.4.14.2.8	Perform quality assurance tests	12 w	4/28/04	7/23/04
704	1.1.4.16	20/20 Axial Modules	90.84 w	1/7/03	10/27/04
706	1.1.4.16.2	South	18.2 w	3/16/04	7/23/04
708	1.1.4.16.2.2	Align and glue sensors to hybrid	12 w	3/16/04	6/9/04
709	1.1.4.16.2.3	Wirebond sensors to hybrid	12 w	3/22/04	6/15/04
711	1.1.4.16.2.5	Debug sensor modules	12 w	3/24/04	6/17/04
712	1.1.4.16.2.6	Burn-in sensor modules	12 w	3/31/04	6/24/04
713	1.1.4.16.2.7	Evaluate and repair sensor modules	12 w	4/14/04	7/9/04

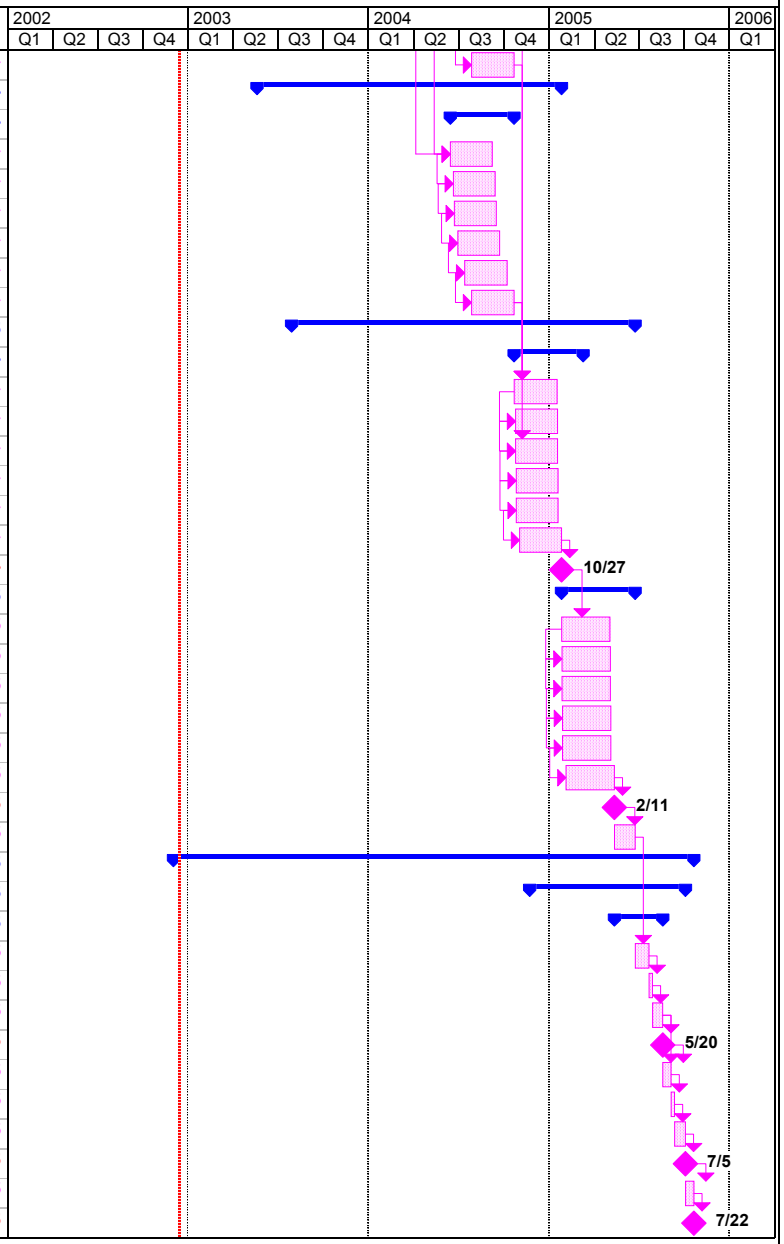


Project: Run IIb Silicon Schedule
File: Run2b_Silicon_Schedule_9-12-02
Date: 9/13/02

Critical Task | Critical Milestone | Summary
Progress | Completed Milestone

Run IIb Silicon Tracker
Critical Path

ID	WBS	Task Name	Duration	Start	Finish
714	1.1.4.16.2.8	Perform quality assurance tests	12 w	4/28/04	7/23/04
726	**1.1.4.17**	**10/10 Stereo Modules**	**84.84 w**	**2/19/03**	**10/27/04**
728	**1.1.4.17.2**	**South**	**18.2 w**	**3/16/04**	**7/23/04**
730	1.1.4.17.2.2	Align and glue sensors to hybrid	12 w	3/16/04	6/9/04
731	1.1.4.17.2.3	Wirebond sensors to hybrid	12 w	3/22/04	6/15/04
733	1.1.4.17.2.5	Debug sensor modules	12 w	3/24/04	6/17/04
734	1.1.4.17.2.6	Burn-in sensor modules	12 w	3/31/04	6/24/04
735	1.1.4.17.2.7	Evaluate and repair sensor modules	12 w	4/14/04	7/9/04
736	1.1.4.17.2.8	Perform quality assurance tests	12 w	4/28/04	7/23/04
781	**1.1.4.22**	**Assemble Modules Onto Staves**	**94.24 w**	**4/30/03**	**3/25/05**
791	**1.1.4.22.5**	**South**	**19.4 w**	**7/23/04**	**12/10/04**
793	1.1.4.22.5.2	Install axial sensor modules on cores	12 w	7/23/04	10/18/04
794	1.1.4.22.5.3	Verify alignment of axial sensor modules	12 w	7/26/04	10/19/04
795	1.1.4.22.5.4	Install stereo sensor modules on cores	12 w	7/26/04	10/19/04
796	1.1.4.22.5.5	Verify alignment of stereo sensor modules	12 w	7/27/04	10/20/04
797	1.1.4.22.5.6	Electrical test of modules on stave core	12 w	7/27/04	10/20/04
798	1.1.4.22.5.7	Attach C-channels to L2-L5 staves	12 w	8/3/04	10/27/04
799	**1.1.4.22.5.8**	**L2-L5 Silicon Stave Production For South Complete**	**0 w**	**10/27/04**	**10/27/04**
803	**1.1.4.22.7**	**North**	**19.4 w**	**10/27/04**	**3/25/05**
805	1.1.4.22.7.2	Install axial sensor modules on cores	12 w	10/27/04	2/2/05
806	1.1.4.22.7.3	Verify alignment of axial sensor modules	12 w	10/28/04	2/3/05
807	1.1.4.22.7.4	Install stereo sensor modules on cores	12 w	10/28/04	2/3/05
808	1.1.4.22.7.5	Verify alignment of stereo sensor modules	12 w	10/29/04	2/4/05
809	1.1.4.22.7.6	Electrical test of modules on stave core	12 w	10/29/04	2/4/05
810	1.1.4.22.7.7	Attach C-channels to L2-L5 staves	12 w	11/5/04	2/11/05
811	**1.1.4.22.7.8**	**L2-L5 Silicon Stave Production For North Complete**	**0 w**	**2/11/05**	**2/11/05**
812	1.1.4.22.7.9	Test L2-L5 staves	6 w	2/11/05	3/25/05
816	**1.1.5**	**Silicon Barrel Assembly**	**143.04 w**	**9/3/02**	**7/22/05**
890	**1.1.5.5**	**North Silicon Barrel Assembly**	**42.44 w**	**8/24/04**	**7/5/05**
905	**1.1.5.5.8**	**L2-L5 Barrel Assembly**	**14 w**	**2/11/05**	**5/20/05**
907	1.1.5.5.8.2	Install staves in north support cylinder	4 w	3/25/05	4/22/05
908	1.1.5.5.8.3	Verify stave alignment	1 w	4/22/05	4/29/05
909	1.1.5.5.8.4	Final electrical test of north layers 2-5	3 w	4/29/05	5/20/05
910	**1.1.5.5.9**	**Layer 2-5 North Silicon Complete**	**0 w**	**5/20/05**	**5/20/05**
911	1.1.5.5.10	Mate L0-L1 with L2-L5, north	2 w	5/20/05	6/6/05
912	1.1.5.5.11	Install Radiation monitors	1 w	6/6/05	6/13/05
913	1.1.5.5.12	Final electrical test of north silicon	3 w	6/13/05	7/5/05
914	**1.1.5.6**	**North Silicon Complete**	**0 w**	**7/5/05**	**7/5/05**
916	1.1.5.8	Prepare for shipment	2.6 w	7/5/05	7/22/05
917	**1.1.5.9**	**Silicon Ready To Move To DAB**	**0 w**	**7/22/05**	**7/22/05**



Project: Run IIb Silicon Schedule
File: Run2b_Silicon_Schedule_9-12-02
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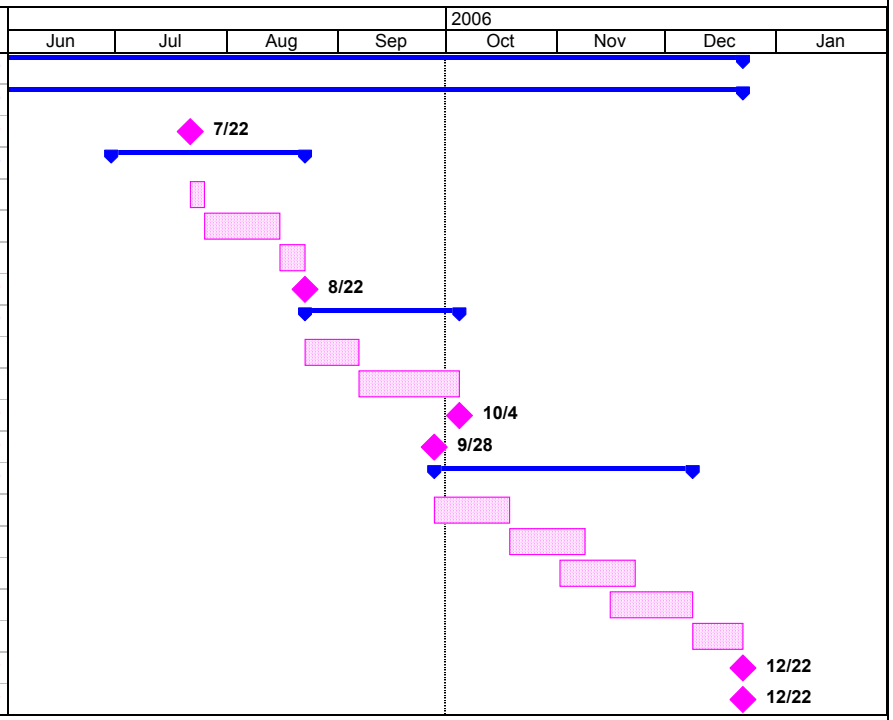
Critical Task
Progress
Critical Milestone
Completed Milestone
Summary

RunIIb Installation
Critical Path

ID	Task Name	Duration	Start	Finish
1	**Run IIb Installation**	**81.4 w**	**5/7/04**	**12/22/05**
2	**Run IIb Silicon Installation**	**81.4 w**	**5/7/04**	**12/22/05**
3	**Silicon Ready To Move To DAB**	**0 w**	**7/22/05**	**7/22/05**
58	**Install RunIIb Silicon Detector**	**7.4 w**	**6/30/05**	**8/22/05**
64	Transport silicon detector to DAB	0.4 w	7/22/05	7/25/05
65	Install silicon detector at DAB	3 w	7/26/05	8/15/05
66	Make and Test Cooling and Dry Gas Connections	1 w	8/16/05	8/22/05
67	**Run IIb Silicon Detector Installed In Fiber Tracker**	**0 w**	**8/22/05**	**8/22/05**
81	**Cable RunIIb Silicon**	**6 w**	**8/23/05**	**10/4/05**
82	Install Junction Cards in CFT Layer 3	2 w	8/23/05	9/6/05
83	Install 80-conductor and clock cables	4 w	9/7/05	10/4/05
84	**Silicon 80-conductor and Clock Cables Installed**	**0 w**	**10/4/05**	**10/4/05**
89	**Ready To Begin Technical Commissioning**	**0 w**	**9/28/05**	**9/28/05**
90	**Technical commissioning of detector**	**10 w**	**9/28/05**	**12/8/05**
91	Quadrant 1	3 w	9/28/05	10/18/05
92	Quadrant 2	3 w	10/19/05	11/8/05
93	Quadrant 3	3 w	11/2/05	11/22/05
94	Quadrant 4	3 w	11/16/05	12/8/05
101	Close calorimeter and muon system	2 w	12/9/05	12/22/05
102	**Silicon System Ready for Beam**	**0 w**	**12/22/05**	**12/22/05**
182	**Run IIb Detector Ready for Beam**	**0 w**	**12/22/05**	**12/22/05**



Project: Run IIb Installation Schedule
File: Run2b_Installation_Schedule_9-1
Date: 9/13/02

Critical Task
Progress
Critical Milestone
Completed Milestone
Summary