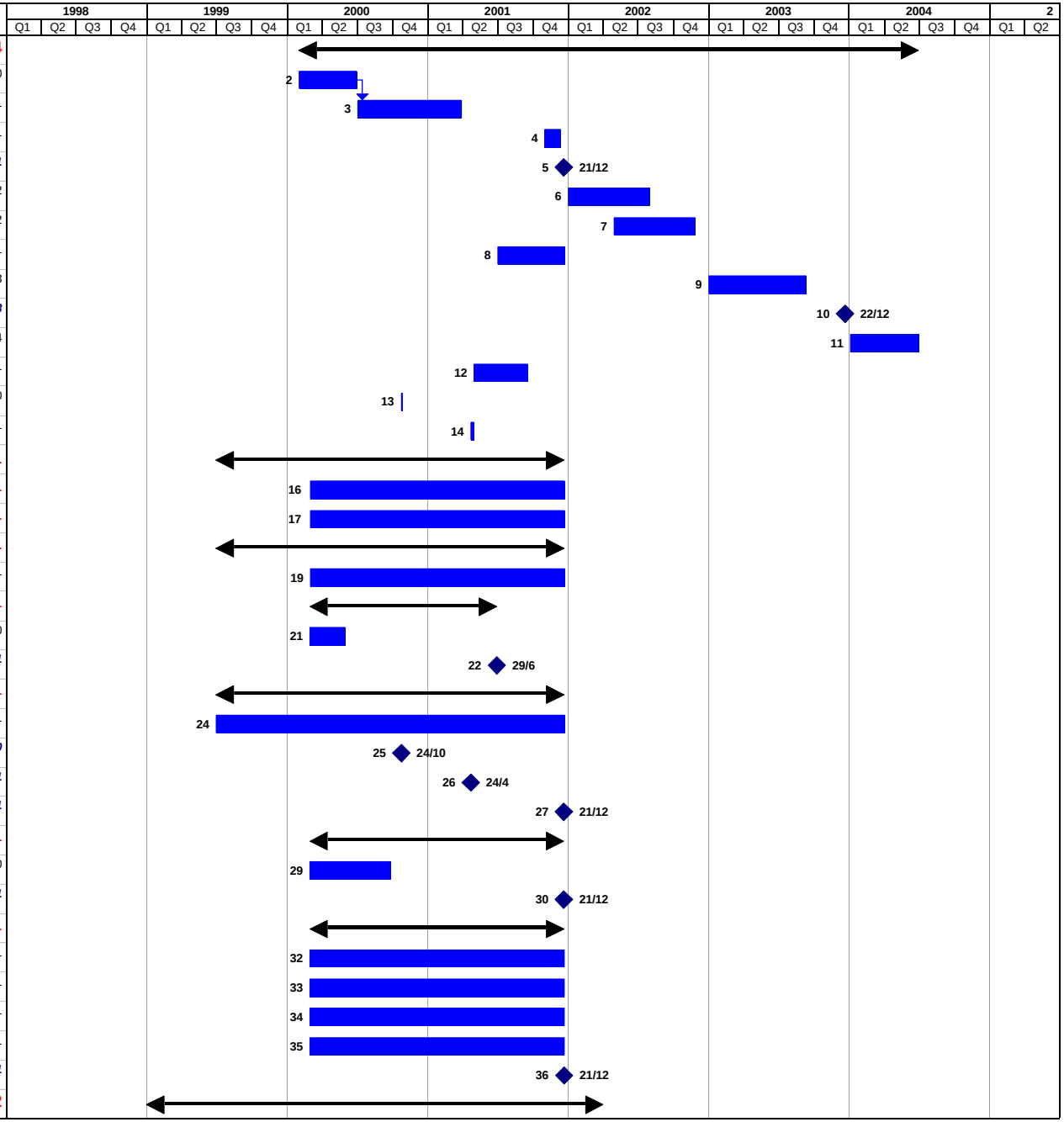
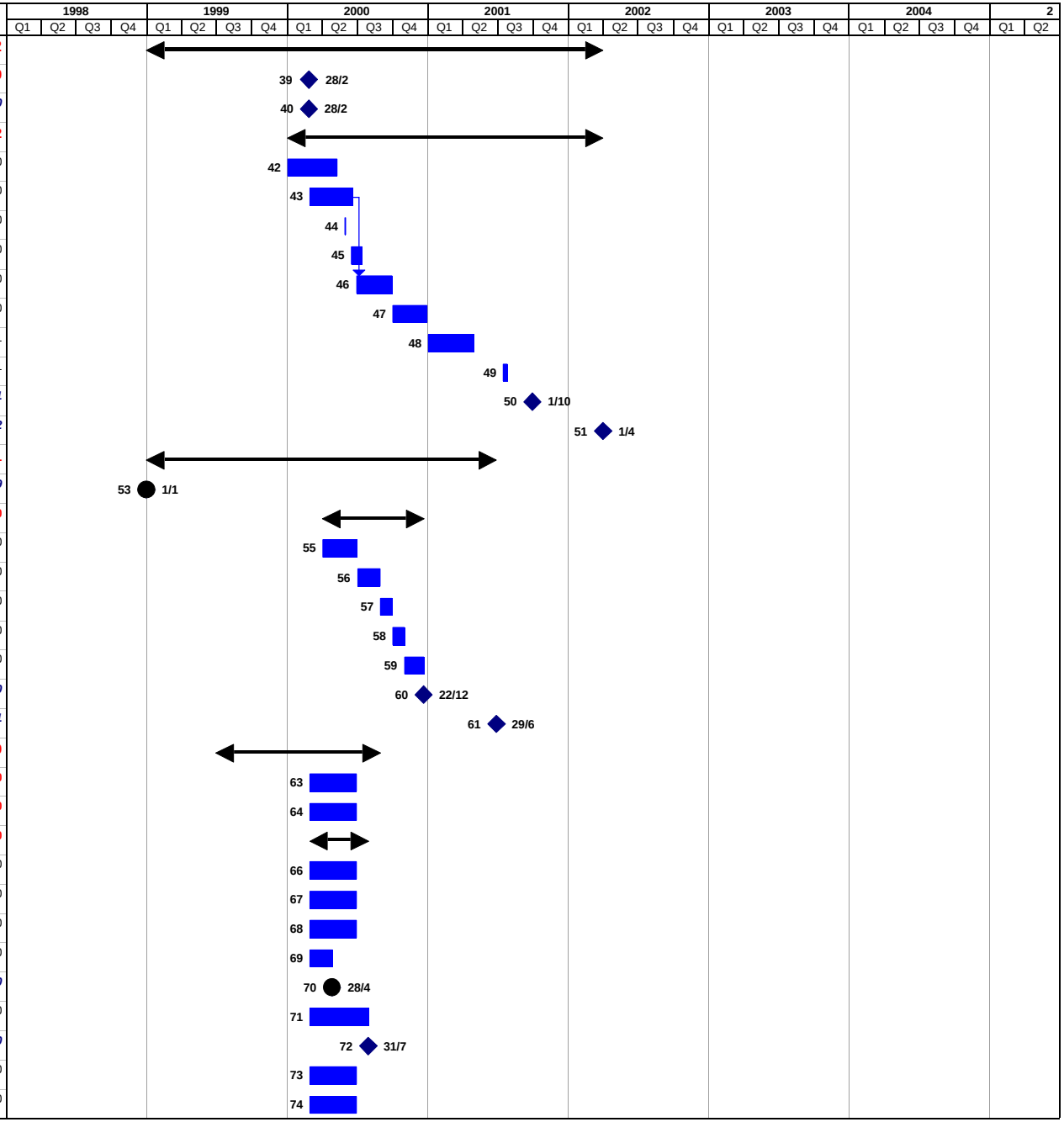
ATLAS Off-Line Computing

ID	PBS	PBS-Nam	Task Name	Start	Finish
1	1	OC	Common items	Tue 1/2/00	Wed 30/6/04
2	1	OC	Prepare software agreements	Tue 1/2/00	Fri 30/6/00
3	1	OC	Conclude software agreements	Tue 4/7/00	Fri 30/3/01
4	1.4	OC0	Perform Mock Data Challenge 0	Thu 1/11/01	Wed 12/12/01
5			*First major cycle of OO software completed*	*Fri 21/12/01*	*Fri 21/12/01*
6	1.5	OC1	Perform Mock Data Challenge 1 ('0.1%')	Wed 2/1/02	Tue 30/7/02
7	1.2	OCT	Write Computing TDR	Wed 1/5/02	Tue 26/11/02
8	1	OC	Computing MOUs	Mon 2/7/01	Fri 21/12/01
9	1.6	OC2	Perform Mock data Challenge 2 ('10%')	Thu 2/1/03	Wed 10/9/03
10			*Second major cycle of OO software complet*	*Mon 22/12/03*	*Mon 22/12/03*
11	1.3	OCP	"Physics TDR prime"	Mon 5/1/04	Wed 30/6/04
12			T/DAQ TDR	Tue 1/5/01	Mon 17/9/01
13			ATLAS Simulation workshop	Tue 24/10/00	Fri 27/10/00
14			ATLAS Physics workshop	Tue 24/4/01	Mon 30/4/01
15	2	OP	Physics part	Thu 1/7/99	Fri 21/12/01
16	2.1	OPR	Requirements	Thu 2/3/00	Fri 21/12/01
17	2.2	OPV	Benchmarking and physics verific	Thu 2/3/00	Fri 21/12/01
18	2.3	OPS	Simulation	Thu 1/7/99	Fri 21/12/01
19	2.3.1	OPSG	Event Generators	Thu 2/3/00	Fri 21/12/01
20	2.3.2	OPSF	Fast Detector Simulation: Requren	Wed 1/3/00	Fri 29/6/01
21	2.3.2	OPSF	Requirements for OO version	Wed 1/3/00	Wed 31/5/00
22	*2.3.2*	*OPSF*	*Fast simulation fully validated*	*Fri 29/6/01*	*Fri 29/6/01*
23	2.3.3	OPSV	Geant4 verification	Thu 1/7/99	Fri 21/12/01
24	2.3.3	OPSV	Geant 4 physics studies	Thu 1/7/99	Fri 21/12/01
25	*2.3.3*	*OPSV*	*First G4 evaluation results*	*Tue 24/10/00*	*Tue 24/10/00*
26	*2.3.3*	*OPSV*	*More G4 evaluation results*	*Tue 24/4/01*	*Tue 24/4/01*
27	*2.3.3*	*OPSV*	*Geant 4 physics fully validated*	*Fri 21/12/01*	*Fri 21/12/01*
28	2.3.4	OPSP	Shower parametrisation	Wed 1/3/00	Fri 21/12/01
29	2.3.4	OPSP	Shower parametrisation studies	Wed 1/3/00	Tue 26/9/00
30	*2.3.4*	*OPSP*	*Shower parametrisation fully valida*	*Fri 21/12/01*	*Fri 21/12/01*
31	2.4	OPC	Combined reconstruction: Require	Wed 1/3/00	Fri 21/12/01
32	2.4.1	OPCE	Electrons and photons	Wed 1/3/00	Fri 21/12/01
33	2.4.2	OPCJ	Jets and missing Et	Wed 1/3/00	Fri 21/12/01
34	2.4.3	OPCM	Muons	Wed 1/3/00	Fri 21/12/01
35	2.4.4	OPCS	Secondary vertices	Wed 1/3/00	Fri 21/12/01
36	*2.4*	*OPC*	*OO/C++ reconstruction fully validated*	*Fri 21/12/01*	*Fri 21/12/01*
37	3	OS	Atlas-specific software	Fri 1/1/99	Mon 1/4/02



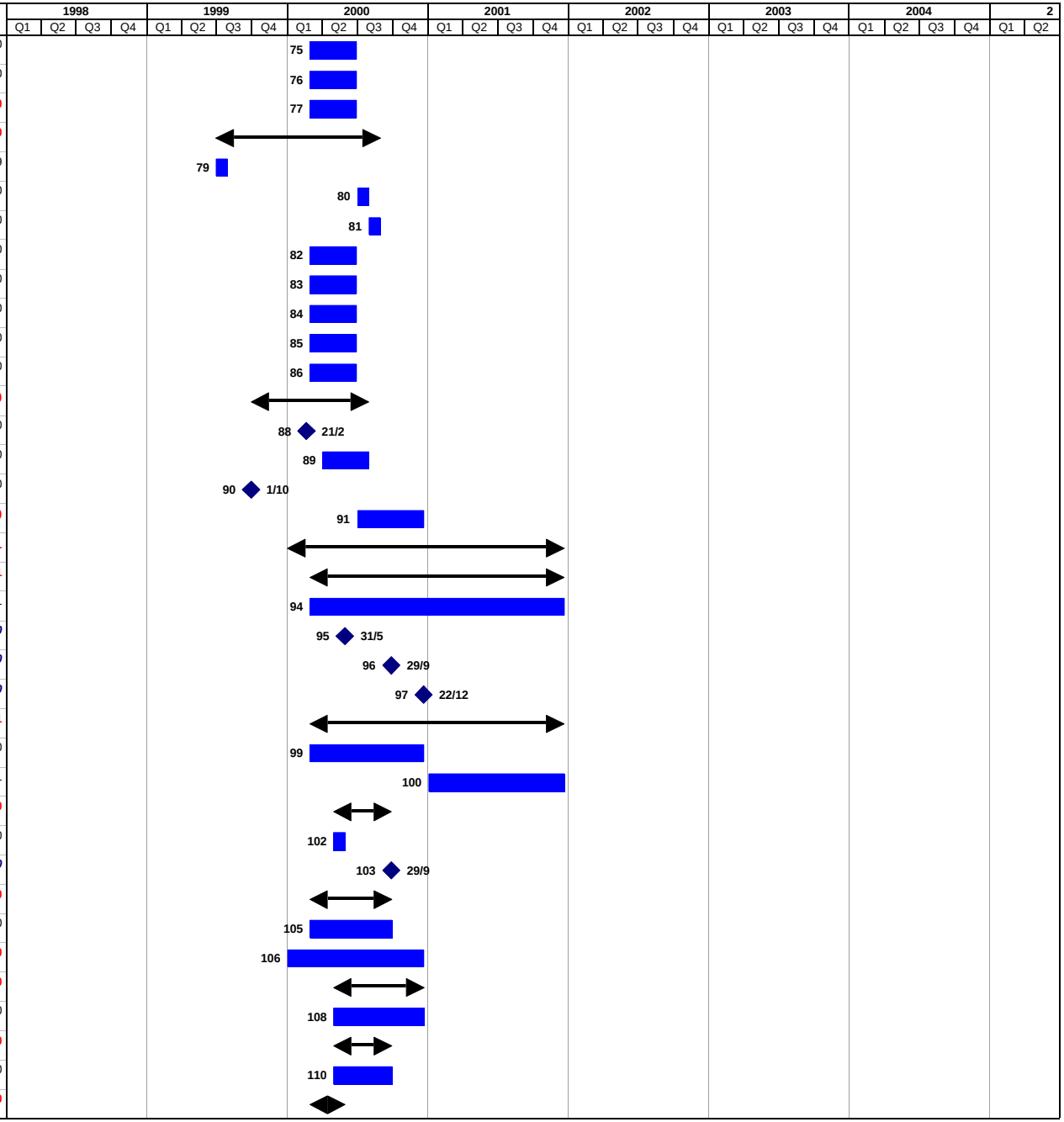
ATLAS Off-Line Computing

ID	PBS	PBS-Nam	Task Name	Start	Finish
38	3.1	OSC	Common items	Fri 1/1/99	Mon 1/4/02
39	3.1.1	OSCA	Architecture	Mon 28/2/00	Mon 28/2/00
40	3.1.1	OSCA	Architecture team in place	Mon 28/2/00	Mon 28/2/00
41	3.1.2	OSCF	Framework	Mon 3/1/00	Mon 1/4/02
42	3.1.2	OSCF	Pre-alpha prototype	Mon 3/1/00	Tue 9/5/00
43	3.1.2	OSCF	USDP-based design	Wed 1/3/00	Tue 20/6/00
44	3.1.2	OSCF	Event Data Model workshop	Wed 31/5/00	Wed 31/5/00
45	3.1.2	OSCF	Review May prototype and alpha strat	Fri 16/6/00	Thu 13/7/00
46	3.1.2	OSCF	Build alpha version	Fri 30/6/00	Fri 29/9/00
47	3.1.2	OSCF	Build beta (TDAQ/TDR) version	Mon 2/10/00	Fri 29/12/00
48	3.1.2	OSCF	Build gamma version	Tue 2/1/01	Mon 30/4/01
49	3.1.2	OSCF	Review design of full function release	Mon 16/7/01	Fri 27/7/01
50	3.1.2	OSCF	Release of fully-functional version	Mon 1/10/01	Mon 1/10/01
51	3.1.2	OSCF	Release of Production version V1	Mon 1/4/02	Mon 1/4/02
52	3.1.3	OSCB	Data base	Fri 1/1/99	Fri 29/6/01
53	3.1.3	OSCB	1 TByte database prototype	Fri 1/1/99	Fri 1/1/99
54	3.1.3	OSCB	Infrastructure	Mon 3/4/00	Fri 22/12/00
55	3.1.3	OSCB	Support database creation	Mon 3/4/00	Fri 30/6/00
56	3.1.3	OSCB	Support distribution to secondary	Mon 3/7/00	Thu 31/8/00
57	3.1.3	OSCB	DB data access via control fram	Fri 1/9/00	Fri 29/9/00
58	3.1.3	OSCB	Support distribution via grids	Mon 2/10/00	Tue 31/10/00
59	3.1.3	OSCB	Connect to replica management	Wed 1/11/00	Fri 22/12/00
60	3.1.3	OSCB	Review data base experience	Fri 22/12/00	Fri 22/12/00
61	3.1.3	OSCB	Decide on data base product	Fri 29/6/01	Fri 29/6/01
62	3.1.4	OSCE	Event	Thu 1/7/99	Thu 31/8/00
63	3.1.4	OSCE	Common aspects and strategy	Wed 1/3/00	Fri 30/6/00
64	3.1.4	OSCE	Raw data model (Atlas at LHC)	Wed 1/3/00	Fri 30/6/00
65	3.1.4	OSCE	Simulated data	Wed 1/3/00	Mon 31/7/00
66	3.1.4	OSCE	Model for digits	Wed 1/3/00	Fri 30/6/00
67	3.1.4	OSCE	Model for hits	Wed 1/3/00	Fri 30/6/00
68	3.1.4	OSCE	Model for other simulation inform	Wed 1/3/00	Fri 30/6/00
69	3.1.4	OSCE	Digits from Geant3 Zebra tapes	Wed 1/3/00	Fri 28/4/00
70	3.8.2	OSSD	Geant3 DIGI data available	Fri 28/4/00	Fri 28/4/00
71	3.1.4	OSCE	Hits from Geant3 Zebra tapes	Wed 1/3/00	Mon 31/7/00
72	3.8.2	OSSD	Geant3 HIT data available	Mon 31/7/00	Mon 31/7/00
73	3.1.4	OSCE	Other information from Geant3 Z	Wed 1/3/00	Fri 30/6/00
74	3.1.4	OSCE	Digits from Geant4	Wed 1/3/00	Fri 30/6/00



ATLAS Off-Line Computing

ID	PBS	PBS-Nam	Task Name	Start	Finish
75	3.1.4	OSCE	Hits from Geant4	Wed 1/3/00	Fri 30/6/00
76	3.1.4	OSCE	Other information from Geant4	Wed 1/3/00	Fri 30/6/00
77	3.1.4	OSCE	Pile-up handling	Wed 1/3/00	Fri 30/6/00
78	3.1.4	OSCE	Test beam data	Thu 1/7/99	Thu 31/8/00
79	3.1.4	OSCE	Pilot project with Objectivity/DB	Thu 1/7/99	Fri 30/7/99
80	3.1.4	OSCE	Put RD45 calibration infrastructu	Mon 3/7/00	Mon 31/7/00
81	3.1.4	OSCE	Naming, user data areas	Tue 1/8/00	Thu 31/8/00
82	3.1.4	OSCE	Inner Detector	Wed 1/3/00	Fri 30/6/00
83	3.1.4	OSCE	Liquid Argon Calorimeter	Wed 1/3/00	Fri 30/6/00
84	3.1.4	OSCE	Tile Calorimeter	Wed 1/3/00	Fri 30/6/00
85	3.1.4	OSCE	Muon Spectrometer	Wed 1/3/00	Fri 30/6/00
86	3.1.4	OSCE	Reconstructed data	Wed 1/3/00	Fri 30/6/00
87	3.1.5	OSCD	Detector description	Fri 1/10/99	Mon 31/7/00
88	3.1.5	OSCD	Complete version1 of IDentifier schen	Mon 21/2/00	Fri 28/4/00
89	3.1.5	OSCD	Revise identifier utilities	Mon 3/4/00	Mon 31/7/00
90	3.1.5	OSCD	Develop XML machinery for Det. Des	Fri 1/10/99	Thu 27/4/00
91	3.1.6	OSCC	Calibration infrastructure	Tue 4/7/00	Fri 22/12/00
92	3.1.7	OSCG	Graphics	Mon 3/1/00	Fri 21/12/01
93	3.1.7	OSCG	Framework	Wed 1/3/00	Fri 21/12/01
94	3.1.7	OSCG	Maintain C++ framework	Wed 1/3/00	Fri 21/12/01
95	3.1.7	OSCG	Java Framework functional	Wed 31/5/00	Wed 31/5/00
96	3.1.7	OSCG	Java framework: transparent a	Fri 29/9/00	Fri 29/9/00
97	3.1.7	OSCG	Java framework fully functiona	Fri 22/12/00	Fri 22/12/00
98	3.1.7	OSCG	Atlantis	Wed 1/3/00	Fri 21/12/01
99	3.1.7	OSCG	Migrate to Java, interface w/ frar	Wed 1/3/00	Fri 22/12/00
100	3.1.7	OSCG	Merge with Wired	Wed 3/1/01	Fri 21/12/01
101	3.1.7	OSCG	Wired	Tue 2/5/00	Fri 29/9/00
102	3.1.7	OSCG	Demonstrate interface	Tue 2/5/00	Wed 31/5/00
103	3.1.7	OSCG	Full interface	Fri 29/9/00	Fri 29/9/00
104	3.1.7	OSCG	AVRML and GraXML	Wed 1/3/00	Fri 29/9/00
105	3.1.7	OSCG	Migrate to Java3D/VRML2/X3D	Wed 1/3/00	Fri 29/9/00
106	3.1.7	OSCG	Persint	Mon 3/1/00	Fri 22/12/00
107	3.1.7	OSCG	Aravis	Tue 2/5/00	Fri 22/12/00
108	3.1.7	OSCG	Migrate to Qt	Tue 2/5/00	Fri 22/12/00
109	3.1.7	OSCG	Statistics	Tue 2/5/00	Fri 29/9/00
110	3.1.7	OSCG	Introduce AIDA scene	Tue 2/5/00	Fri 29/9/00
111	3.1.7	OSCG	Other scenes	Wed 1/3/00	Wed 31/5/00



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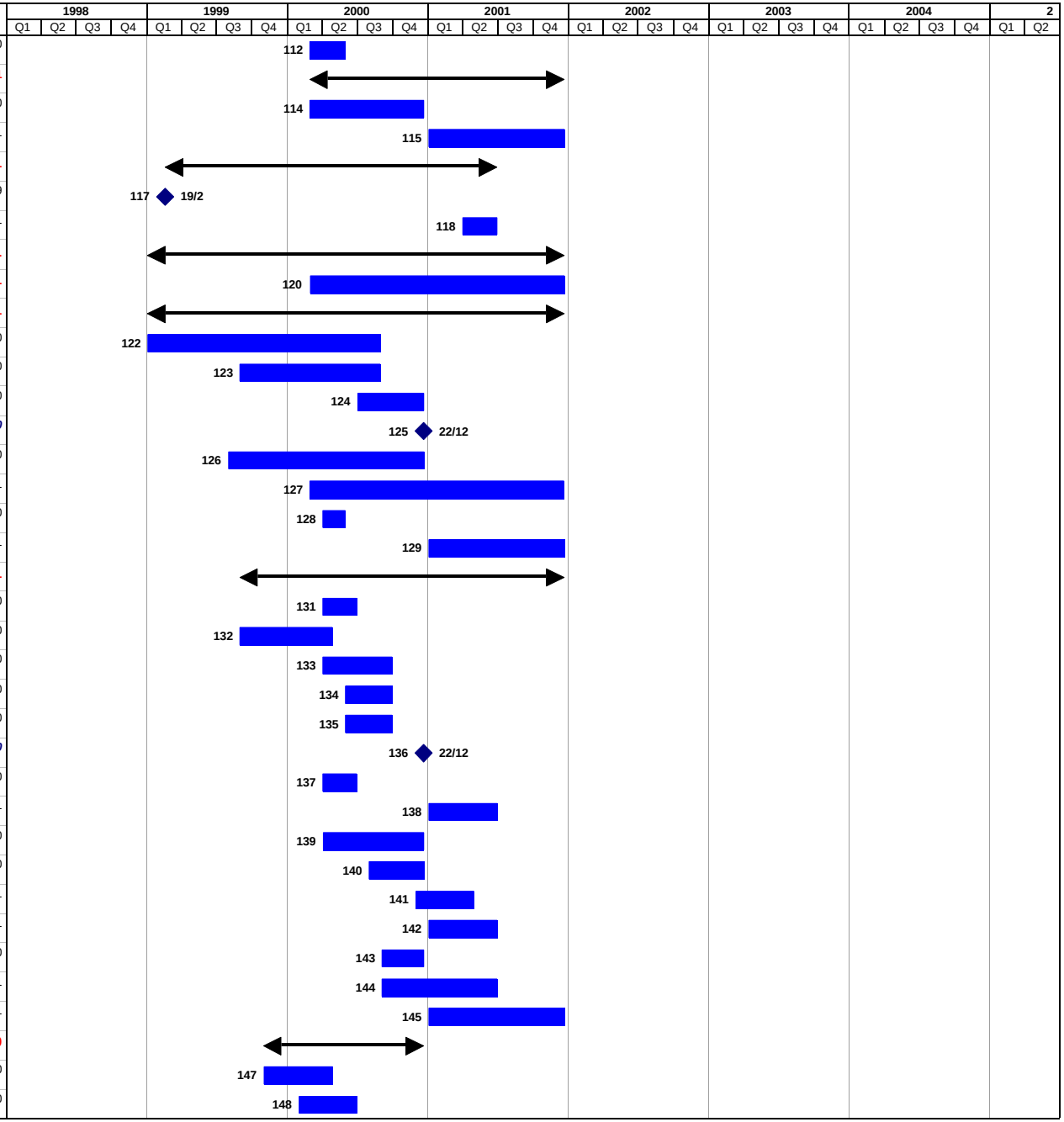
ID	PBS	PBS-Nam	Task Name	Start	Finish
112	3.1.7	OSCG	Implement Text and XML in Java	Wed 1/3/00	Wed 31/5/00
113	**3.1.7**	**OSCG**	**Data**	**Wed 1/3/00**	**Fri 21/12/01**
114	3.1.7	OSCG	Complete C++ versions of graph	Wed 1/3/00	Fri 22/12/00
115	3.1.7	OSCG	Migrate graphical representation	Wed 3/1/01	Fri 21/12/01
116	**3.1.8**	**OSCT**	**Analysis tools**	**Fri 19/2/99**	**Fri 29/6/01**
117	3.1.8	OSCT	Define interim requirements	Fri 19/2/99	Thu 30/9/99
118	3.1.8	OSCT	Define relationship with framework	Mon 2/4/01	Fri 29/6/01
119	**3.2**	**OSI**	**Inner Detector software**	**Mon 4/1/99**	**Fri 21/12/01**
120	**3.2.1**	**OSIC**	**Common items**	**Thu 2/3/00**	**Fri 21/12/01**
121	**3.2.2**	**OSIS**	**Simulation**	**Mon 4/1/99**	**Fri 21/12/01**
122	3.2.2	OSIS	TRT test beam simulation in G4	Mon 4/1/99	Thu 31/8/00
123	3.2.2	OSIS	Pixel test beam simulation in G4	Wed 1/9/99	Thu 31/8/00
124	3.2.2	OSIS	Global ID geometry in G4	Mon 3/7/00	Thu 21/12/00
125	***3.2.2***	***OSIS***	***ID in G4***	***Fri 22/12/00***	***Fri 22/12/00***
126	3.2.2	OSIS	Checks of G4 EM physics	Mon 2/8/99	Thu 21/12/00
127	3.2.2	OSIS	Checks of G4 hadronic physics	Wed 1/3/00	Thu 20/12/01
128	3.2.2	OSIS	Current ID geometry in G3	Mon 3/4/00	Wed 31/5/00
129	3.2.2	OSIS	Tests of Geant 4 versus Geant 3	Wed 3/1/01	Fri 21/12/01
130	**3.2.3**	**OSIR**	**Reconstruction**	**Wed 1/9/99**	**Fri 21/12/01**
131	3.2.3	OSIR	Seeds package as separate unit	Mon 3/4/00	Fri 30/6/00
132	3.2.3	OSIR	iPatRec in PASO	Wed 1/9/99	Fri 28/4/00
133	3.2.3	OSIR	xKalman++ in new framework	Mon 3/4/00	Fri 29/9/00
134	3.2.3	OSIR	iPatRec in new framework	Thu 1/6/00	Fri 29/9/00
135	3.2.3	OSIR	Checks of pattern recognition progran	Thu 1/6/00	Fri 29/9/00
136	***3.2.3***	***OSIR***	***Reconstruction as good as ATREC***	***Fri 22/12/00***	***Fri 22/12/00***
137	3.2.3	OSIR	SCT-Kalman in PASO and new frame	Mon 3/4/00	Fri 30/6/00
138	3.2.3	OSIR	Other L2 algorithms in framework	Wed 3/1/01	Fri 29/6/01
139	3.2.3	OSIR	Modularisation of iPatRec	Tue 4/4/00	Fri 22/12/00
140	3.2.3	OSIR	Modularisation of xKalman++	Wed 2/8/00	Fri 22/12/00
141	3.2.3	OSIR	ASTRA in new framework	Fri 1/12/00	Mon 30/4/01
142	3.2.3	OSIR	Conversion/adaptation of xHouRec a	Wed 3/1/01	Fri 29/6/01
143	3.2.3	OSIR	New xConver	Mon 4/9/00	Fri 22/12/00
144	3.2.3	OSIR	Vertex finding/fitting	Mon 4/9/00	Fri 29/6/01
145	3.2.3	OSIR	Optimisation of pattern recognition str	Wed 3/1/01	Fri 21/12/01
146	**3.2.4**	**OSID**	**Data base interface**	**Tue 2/11/99**	**Thu 21/12/00**
147	3.2.4	OSID	Pixel and SCT in XML	Tue 2/11/99	Fri 28/4/00
148	3.2.4	OSID	TRT in XML	Tue 1/2/00	Fri 30/6/00



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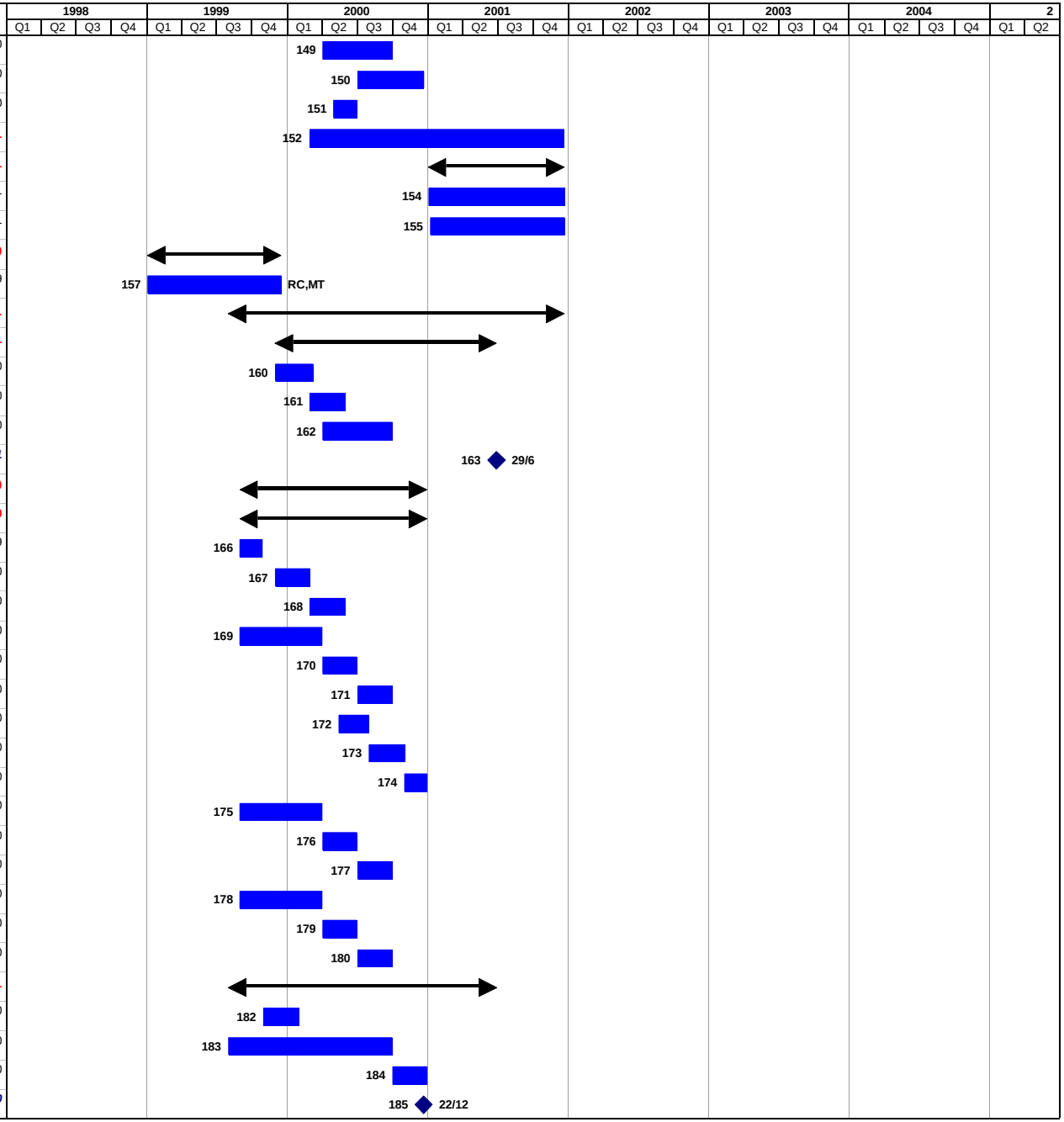
ID	PBS	PBS-Nam	Task Name	Start	Finish
149	3.2.4	OSID	Reconstruction geometry from detect	Mon 3/4/00	Fri 29/9/00
150	3.2.4	OSID	Conditions data base	Mon 3/7/00	Thu 21/12/00
151	3.2.4	OSID	Update Event for current geometry	Tue 2/5/00	Fri 30/6/00
152	**3.2.5**	**OSIB**	**Test beams**	**Wed 1/3/00**	**Thu 20/12/01**
153	**3.2.6**	**OSIA**	**Alignment and calibration**	**Wed 3/1/01**	**Fri 21/12/01**
154	3.2.6	OSIA	Study of alignment strategy, program	Wed 3/1/01	Fri 21/12/01
155	3.2.6	OSIA	TRT drift time calibration	Mon 8/1/01	Fri 21/12/01
156	**3.2.7**	**OSIG**	**Graphics**	**Mon 4/1/99**	**Fri 17/12/99**
157	3.2.7	OSIG	Initial implementation	Mon 4/1/99	Fri 17/12/99
158	**3.3**	**OSL**	**Liquid Argon Calorimeter software**	**Mon 2/8/99**	**Fri 21/12/01**
159	**3.3.1**	**OSLC**	**Common items**	**Wed 1/12/99**	**Fri 29/6/01**
160	3.3.1	OSLC	Project definition - first iteration	Wed 1/12/99	Wed 8/3/00
161	3.3.1	OSLC	Project definition - second iteration	Wed 1/3/00	Wed 31/5/00
162	3.3.1	OSLC	Implement ideas into May framework	Mon 3/4/00	Sat 30/9/00
163	***3.3.1***	***OSLC***	***First full release of LAr OO/C++ sol***	***Fri 29/6/01***	***Fri 29/6/01***
164	**3.3.2**	**OSLS**	**Simulation**	**Wed 1/9/99**	**Fri 29/12/00**
165	**3.3.2**	**OSLS**	**G4 implementation tests**	**Wed 1/9/99**	**Fri 29/12/00**
166	3.3.2	OSLS	HEC M0 description	Wed 1/9/99	Fri 29/10/99
167	3.3.2	OSLS	HEC M0 first results	Wed 1/12/99	Tue 29/2/00
168	3.3.2	OSLS	HEC M0 validation	Wed 1/3/00	Wed 31/5/00
169	3.3.2	OSLS	EMB M0 description	Wed 1/9/99	Fri 31/3/00
170	3.3.2	OSLS	EMB M0 first results	Mon 3/4/00	Fri 30/6/00
171	3.3.2	OSLS	EMB M0 validation	Mon 3/7/00	Fri 29/9/00
172	3.3.2	OSLS	EMEC M0 description	Mon 15/5/00	Mon 31/7/00
173	3.3.2	OSLS	EMEC M0 first results	Tue 1/8/00	Tue 31/10/00
174	3.3.2	OSLS	EMEC M0 validation	Wed 1/11/00	Fri 29/12/00
175	3.3.2	OSLS	FCAL M0 description	Wed 1/9/99	Fri 31/3/00
176	3.3.2	OSLS	FCAL M0 first results	Mon 3/4/00	Fri 30/6/00
177	3.3.2	OSLS	FCAL M0 validation	Mon 3/7/00	Fri 29/9/00
178	3.3.2	OSLS	Coil & cryostats description	Wed 1/9/99	Fri 31/3/00
179	3.3.2	OSLS	Coil & cryostats first results	Mon 3/4/00	Fri 30/6/00
180	3.3.2	OSLS	Coil & cryostats validation	Mon 3/7/00	Fri 29/9/00
181	**3.3.3**	**OSLR**	**Reconstruction**	**Mon 2/8/99**	**Fri 29/6/01**
182	3.3.3	OSLR	Reverse engineering of ATRECON L/	Mon 1/11/99	Mon 31/1/00
183	3.3.3	OSLR	OO analysis and prototype implement	Mon 2/8/99	Fri 29/9/00
184	3.3.3	OSLR	Deliver code for TDAQ TDR studies	Mon 2/10/00	Fri 29/12/00
185	***3.3.3***	***OSLR***	***Reconstruction as good as ATREC***	***Fri 22/12/00***	***Fri 22/12/00***



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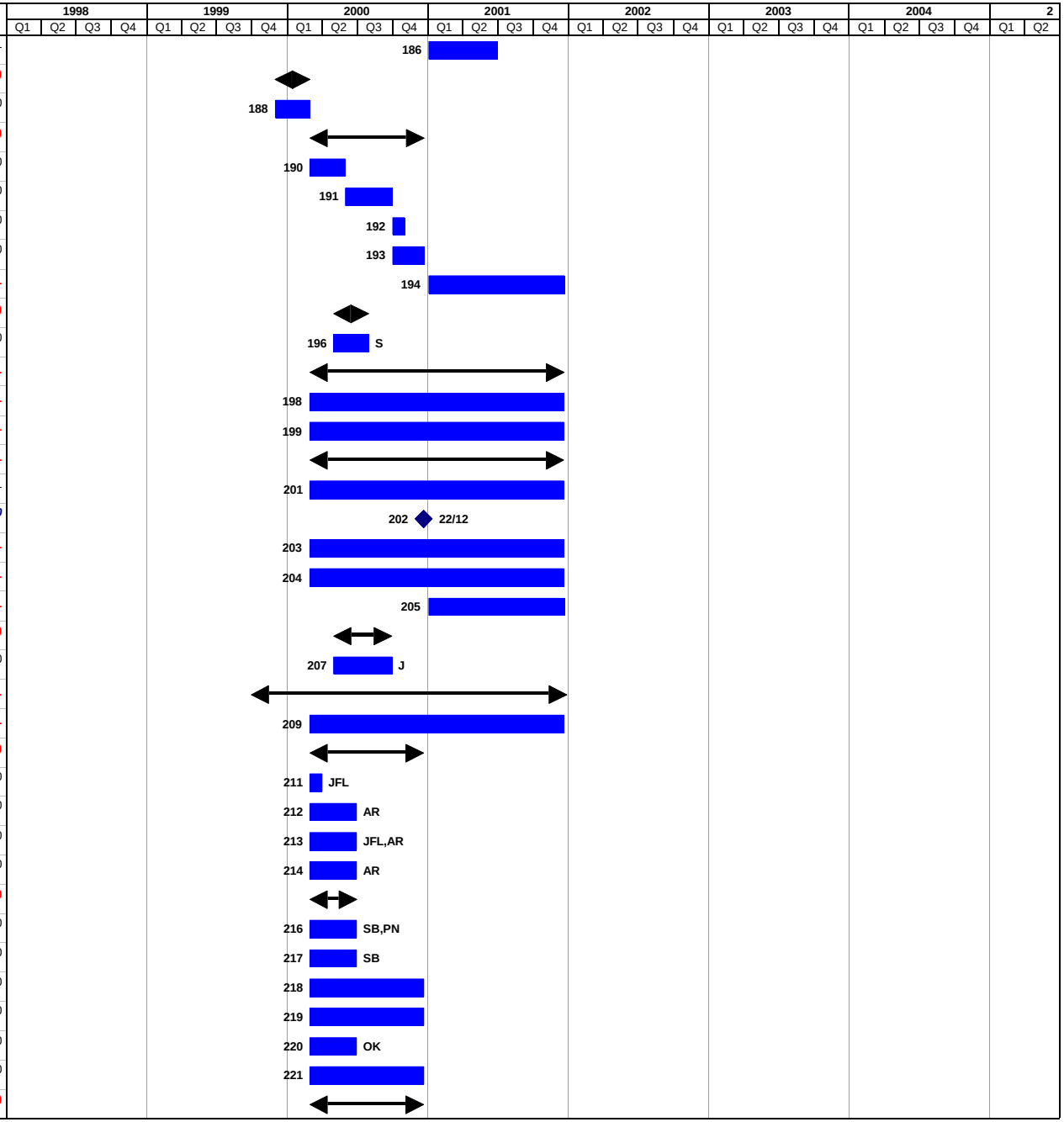
ID	PBS	PBS-Nam	Task Name	Start	Finish
186	3.3.3	OSLR	Connection with detector description,	Wed 3/1/01	Fri 29/6/01
187	3.3.4	OSLD	Data base interface	Wed 1/12/99	Tue 29/2/00
188	3.3.4	OSLD	Barrel accordion geometry in XML	Wed 1/12/99	Tue 29/2/00
189	3.3.5	OSLB	Test beams	Wed 1/3/00	Fri 22/12/00
190	3.3.5	OSLB	OO analysis, use cases, entities, inter	Wed 1/3/00	Wed 31/5/00
191	3.3.5	OSLB	Event model and first implementation	Thu 1/6/00	Fri 29/9/00
192	3.3.5	OSLB	First events in Atlas event store	Mon 2/10/00	Tue 31/10/00
193	3.3.5	OSLB	Read from Atlas event store	Mon 2/10/00	Fri 22/12/00
194	3.3.6	OSLA	Alignment and calibration	Wed 3/1/01	Fri 21/12/01
195	3.3.7	OSLG	Graphics	Tue 2/5/00	Mon 31/7/00
196	3.3.7	OSLG	Initial implementation	Tue 2/5/00	Mon 31/7/00
197	3.4	OST	Tile Calorimeter software	Wed 1/3/00	Fri 21/12/01
198	3.4.1	OSTC	Common items	Wed 1/3/00	Thu 20/12/01
199	3.4.2	OSTS	Simulation	Wed 1/3/00	Thu 20/12/01
200	3.4.3	OSTR	Reconstruction	Wed 1/3/00	Thu 20/12/01
201	3.4.3	OSTR	Develop clustering code	Wed 1/3/00	Thu 20/12/01
202	3.3.3	OSLR	Reconstruction as good as ATREC	Fri 22/12/00	Fri 22/12/00
203	3.4.4	OSTD	Data base interface	Wed 1/3/00	Thu 20/12/01
204	3.4.5	OSTB	Test beams	Wed 1/3/00	Thu 20/12/01
205	3.4.6	OSTA	Alignment and calibration	Wed 3/1/01	Fri 21/12/01
206	3.4.7	OSTG	Graphics	Tue 2/5/00	Fri 29/9/00
207	3.4.7	OSTG	Initial implementation	Tue 2/5/00	Fri 29/9/00
208	3.5	OSM	Muon spectrometer software	Fri 1/10/99	Fri 28/12/01
209	3.5.1	OSMC	Common items	Wed 1/3/00	Thu 20/12/01
210	3.5.2	OSMS	Simulation	Wed 1/3/00	Thu 21/12/00
211	3.5.2	OSMS	Test AMDB -> G4 -> Reconstruction	Wed 1/3/00	Fri 31/3/00
212	3.5.2	OSMS	Acceptance studies for AMDB' and G	Wed 1/3/00	Fri 30/6/00
213	3.5.2	OSMS	Atlas note	Wed 1/3/00	Fri 30/6/00
214	3.5.2	OSMS	H8 testbeam simulation	Wed 1/3/00	Fri 30/6/00
215	3.5.2	OSMS	G3 simulation for trigger studies	Wed 1/3/00	Fri 30/6/00
216	3.5.2	OSMS	Add CSCs	Wed 1/3/00	Fri 30/6/00
217	3.5.2	OSMS	Add overlapping RPC	Wed 1/3/00	Fri 30/6/00
218	3.5.2	OSMS	AMDB+ to G4	Wed 1/3/00	Thu 21/12/00
219	3.5.2	OSMS	Physics TDR figures with G4	Wed 1/3/00	Thu 21/12/00
220	3.5.2	OSMS	Test beam analysis	Wed 1/3/00	Fri 30/6/00
221	3.5.2	OSMS	AMDB to G4 for TDC and CSC	Wed 1/3/00	Thu 21/12/00
222	3.5.3	OSMR	Reconstruction	Wed 1/3/00	Fri 22/12/00



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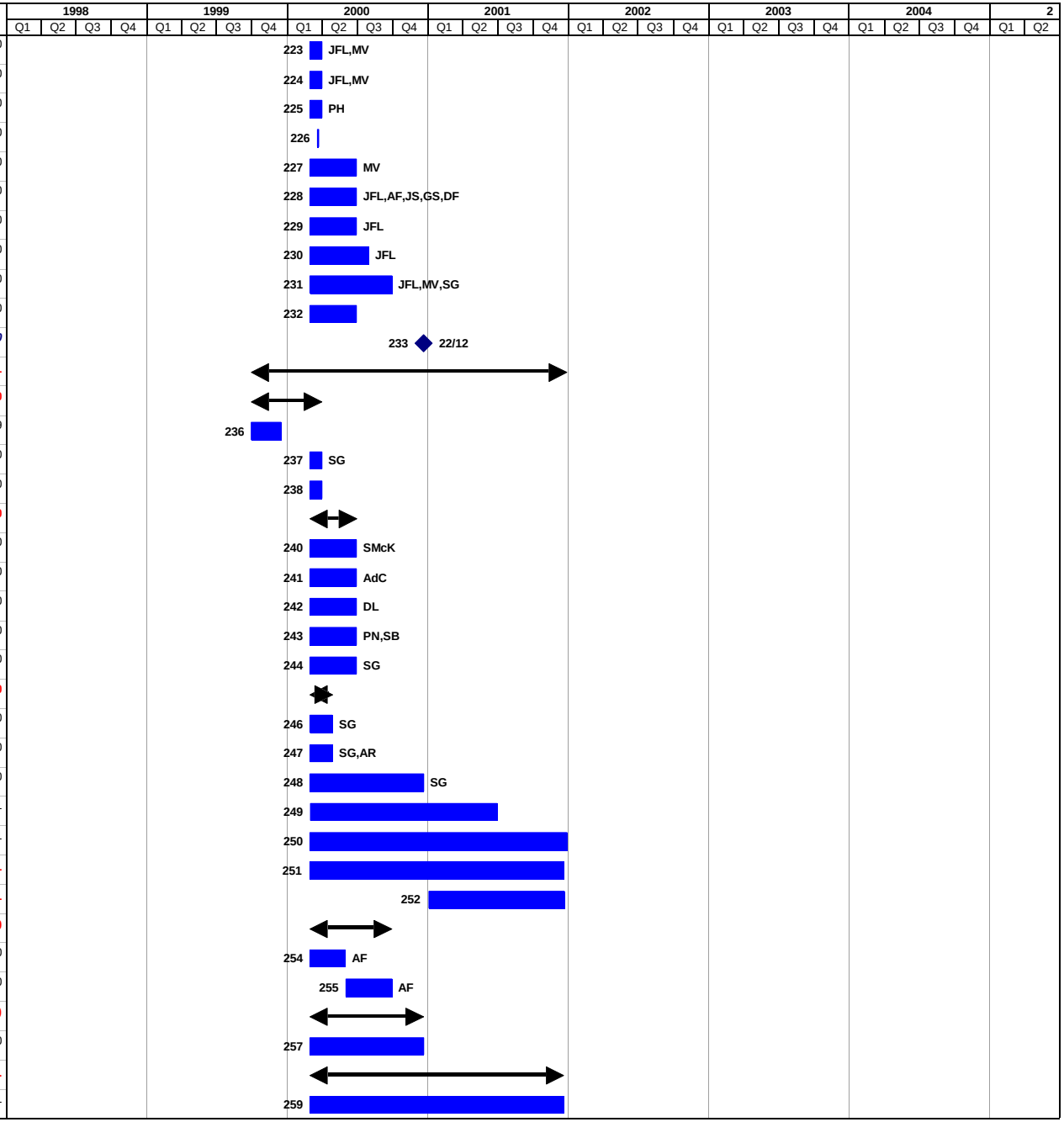
ID	PBS	PBS-Nam	Task Name	Start	Finish
223	3.5.3	OSMR	Muonbox: Clean up TDR version	Wed 1/3/00	Fri 31/3/00
224	3.5.3	OSMR	Muonbox: Wrapping	Wed 1/3/00	Fri 31/3/00
225	3.5.3	OSMR	Amber: Port to Unix	Wed 1/3/00	Fri 31/3/00
226	3.5.3	OSMR	Amber workshop	Mon 20/3/00	Thu 23/3/00
227	3.5.3	OSMR	Muonbox update for trigger studies	Wed 1/3/00	Fri 30/6/00
228	3.5.3	OSMR	Amber: Port to framework	Wed 1/3/00	Fri 30/6/00
229	3.5.3	OSMR	Plan for Amber evaluation	Wed 1/3/00	Fri 30/6/00
230	3.5.3	OSMR	Evaluate whether new reconstruction p	Wed 1/3/00	Mon 31/7/00
231	3.5.3	OSMR	Evaluate AGDD for muon reconstructi	Wed 1/3/00	Fri 29/9/00
232	3.5.3	OSMR	Define relation with Event Filter	Wed 1/3/00	Fri 30/6/00
233	*3.3.3*	*OSLR*	*Reconstruction as good as ATREC*	*Fri 22/12/00*	*Fri 22/12/00*
234	**3.5.4**	**OSMD**	**Data base interface**	**Fri 1/10/99**	**Fri 28/12/01**
235	**3.5.4**	**OSMD**	**Muon digit extraction from G3**	**Fri 1/10/99**	**Fri 31/3/00**
236	3.5.4	OSMD	MDT digits from G3	Fri 1/10/99	Fri 17/12/99
237	3.5.4	OSMD	RPC digits from G3	Wed 1/3/00	Fri 31/3/00
238	3.5.4	OSMD	TGC digits from G3	Wed 1/3/00	Fri 31/3/00
239	**3.5.4**	**OSMD**	**Initial XML descriptions**	**Wed 1/3/00**	**Fri 30/6/00**
240	3.5.4	OSMD	MDT	Wed 1/3/00	Fri 30/6/00
241	3.5.4	OSMD	RPC	Wed 1/3/00	Fri 30/6/00
242	3.5.4	OSMD	TGC	Wed 1/3/00	Fri 30/6/00
243	3.5.4	OSMD	CSC	Wed 1/3/00	Fri 30/6/00
244	3.5.4	OSMD	Integration	Wed 1/3/00	Fri 30/6/00
245	**3.5.4**	**OSMD**	**Test G4 geometry from XML**	**Wed 1/3/00**	**Fri 28/4/00**
246	3.5.4	OSMD	XML for 1 barrel module	Wed 1/3/00	Fri 28/4/00
247	3.5.4	OSMD	G4 application	Wed 1/3/00	Fri 28/4/00
248	3.5.4	OSMD	(Re-)Define simulated digits and hits	Wed 1/3/00	Thu 21/12/00
249	3.5.4	OSMD	Event data model for rec. objects	Thu 2/3/00	Fri 29/6/01
250	3.5.4	OSMD	Calibration and alignment	Wed 1/3/00	Fri 28/12/01
251	**3.5.5**	**OSMB**	**Test beams**	**Wed 1/3/00**	**Thu 20/12/01**
252	**3.5.6**	**OSMA**	**Alignment and calibration**	**Wed 3/1/01**	**Fri 21/12/01**
253	**3.5.7**	**OSMG**	**Graphics**	**Wed 1/3/00**	**Fri 29/9/00**
254	3.5.7	OSMG	Initial implementation of MDT	Wed 1/3/00	Wed 31/5/00
255	3.5.7	OSMG	Initial implementation of other devices	Fri 2/6/00	Fri 29/9/00
256	**3.6**	**OSD**	**Trigger and data acquisition**	**Wed 1/3/00**	**Thu 21/12/00**
257	3.6	OSD	Requirements for new framework	Wed 1/3/00	Thu 21/12/00
258	**3.7**	**OSE**	**Event filter**	**Wed 1/3/00**	**Thu 20/12/01**
259	3.7	OSE	Study suitability of offline reconstruction alg	Wed 1/3/00	Thu 20/12/01



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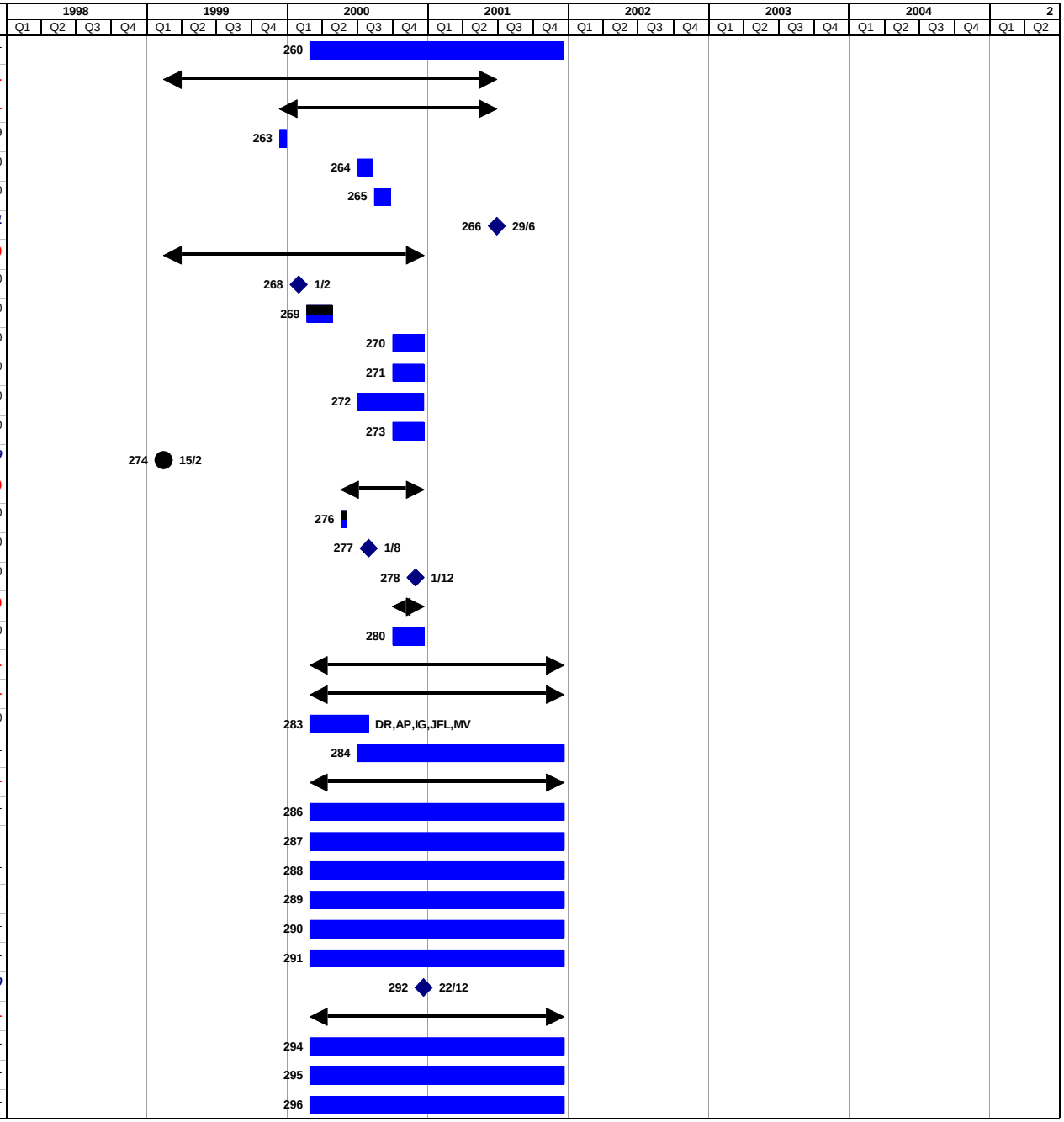
ID	PBS	PBS-Nam	Task Name	Start	Finish
260	3.7	OSE	Requirements on Event	Wed 1/3/00	Thu 20/12/01
261	**3.8**	**OSS**	**Detector Simulation**	**Mon 15/2/99**	**Fri 29/6/01**
262	**3.8.1**	**OSSG**	**Event generators**	**Mon 13/12/99**	**Fri 29/6/01**
263	3.8.1	OSSG	Generators: I/f Pythia to HepMC++	Mon 13/12/99	Fri 31/12/99
264	3.8.1	OSSG	All major generators ifaced to HepMC	Mon 3/7/00	Fri 11/8/00
265	3.8.1	OSSG	Major Generators I/faced to Framewo	Tue 15/8/00	Mon 25/9/00
266	***3.8.1***	***OSSG***	***Library of generators available***	***Fri 29/6/01***	***Fri 29/6/01***
267	**3.8.2**	**OSSD**	**Detailed detector simulation**	**Mon 15/2/99**	**Fri 22/12/00**
268	3.8.2	OSSD	Geant3 HIT data available	Tue 1/2/00	Mon 31/7/00
269	3.8.2	OSSD	Geant3 DIGI data available	Sun 20/2/00	Fri 28/4/00
270	3.8.2	OSSD	Infrastructure for identical geometries	Mon 2/10/00	Fri 22/12/00
271	3.8.2	OSSD	Geant 3 interfaced to Framework ??	Mon 2/10/00	Fri 22/12/00
272	3.8.2	OSSD	Optimise Geant 4 builder	Tue 4/7/00	Fri 22/12/00
273	3.8.2	OSSD	Geant 4 interfaced to Framework	Mon 2/10/00	Fri 22/12/00
274	***3.8.2***	***OSSD***	***Interface to magn. Field***	***Mon 15/2/99***	***Mon 15/2/99***
275	**3.8.3**	**OSSF**	**Fast detector simulation**	**Sat 20/5/00**	**Fri 22/12/00**
276	3.8.3	OSSF	Decompose ATLFAST(Ftn) version	Sat 20/5/00	Fri 2/6/00
277	3.8.3	OSSF	I/face ATLFAST(Ftn,Root) to f/work	Tue 1/8/00	Mon 28/8/00
278	3.8.3	OSSF	I/face new ATLFAST(C++) to f/work	Fri 1/12/00	Fri 22/12/00
279	**3.8.4**	**OSSP**	**Shower parametrisation**	**Mon 2/10/00**	**Fri 22/12/00**
280	3.8.2	OSSD	Integration of shower parametrisation	Mon 2/10/00	Fri 22/12/00
281	**3.9**	**OSR**	**Reconstruction**	**Wed 1/3/00**	**Fri 21/12/01**
282	**3.9**	**OSR**	**Common items**	**Wed 1/3/00**	**Fri 21/12/01**
283	3.9	OSR	Definition of reconstructed objects	Wed 1/3/00	Mon 31/7/00
284	3.9	OSR	Vertexing	Mon 3/7/00	Fri 21/12/01
285	**3.9.1**	**OSRE**	**Electrons and photons**	**Wed 1/3/00**	**Fri 21/12/01**
286	3.9.1	OSRE	Modularise brem recovery	Wed 1/3/00	Fri 21/12/01
287	3.9.1	OSRE	Improve conversion finding	Wed 1/3/00	Fri 21/12/01
288	3.9.1	OSRE	Coherent approach to pattern recogni	Wed 1/3/00	Fri 21/12/01
289	3.9.1	OSRE	Requirements for e measurements an	Wed 1/3/00	Fri 21/12/01
290	3.9.1	OSRE	Improve measurements of e and conv	Wed 1/3/00	Fri 21/12/01
291	3.9.1	OSRE	Improve e and photon identification	Wed 1/3/00	Fri 21/12/01
292	***3.3.3***	***OSLR***	***Reconstruction as good as ATREC***	***Fri 22/12/00***	***Fri 22/12/00***
293	**3.9.2**	**OSRJ**	**Jets and missing Et**	**Wed 1/3/00**	**Fri 21/12/01**
294	3.9.2	OSRJ	Rewrite common jet code in OO/C++	Wed 1/3/00	Fri 21/12/01
295	3.9.2	OSRJ	Modularise jet reconstruction	Wed 1/3/00	Fri 21/12/01
296	3.9.2	OSRJ	Identify common aspects with e/gamn	Wed 1/3/00	Fri 21/12/01



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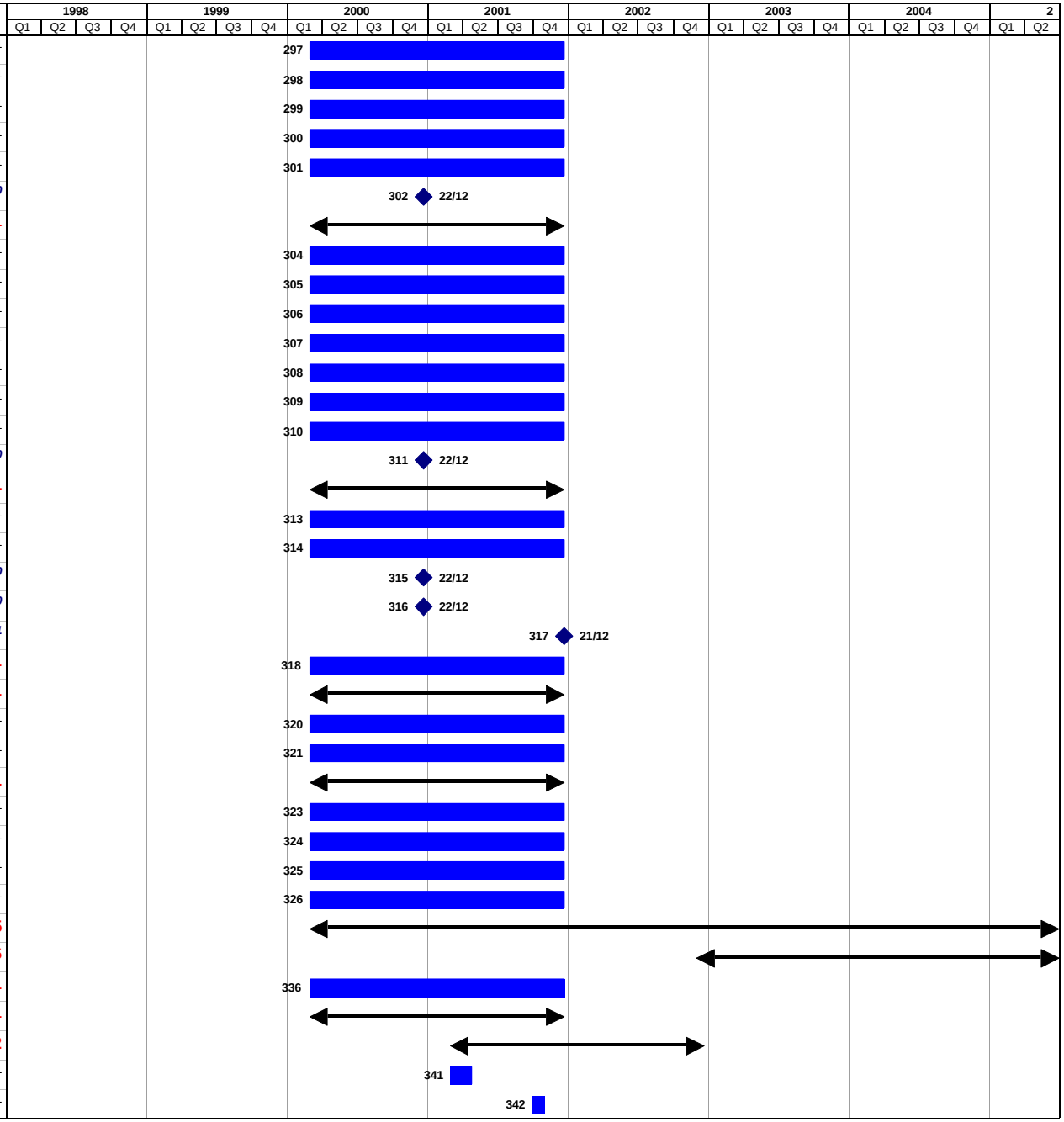
ID	PBS	PBS-Nam	Task Name	Start	Finish
297	3.9.2	OSRJ	Develop alternative approach using L/	Wed 1/3/00	Fri 21/12/01
298	3.9.2	OSRJ	Integrate jet energy calib into reconstr	Wed 1/3/00	Fri 21/12/01
299	3.9.2	OSRJ	Jet energy calibration	Wed 1/3/00	Fri 21/12/01
300	3.9.2	OSRJ	Energy flow algorithm	Wed 1/3/00	Fri 21/12/01
301	3.9.2	OSRJ	Optimise missing Et algorithm	Wed 1/3/00	Fri 21/12/01
302	*3.3.3*	*OSLR*	*Reconstruction as good as ATREC*	*Fri 22/12/00*	*Fri 22/12/00*
303	**3.9.3**	**OSRM**	**Muons**	**Wed 1/3/00**	**Fri 21/12/01**
304	3.9.3	OSRM	Compare performance of various pac	Wed 1/3/00	Fri 21/12/01
305	3.9.3	OSRM	Clean up MUID/Muonbox interface	Wed 1/3/00	Fri 21/12/01
306	3.9.3	OSRM	Optimise muon isolation criteria	Wed 1/3/00	Fri 21/12/01
307	3.9.3	OSRM	Improve id of low-pt muons	Wed 1/3/00	Fri 21/12/01
308	3.9.3	OSRM	Improve id of muons inside jets	Wed 1/3/00	Fri 21/12/01
309	3.9.3	OSRM	Improve rejection of K and pi decays	Wed 1/3/00	Fri 21/12/01
310	3.9.3	OSRM	Fast combination algorithms for LVL2	Wed 1/3/00	Fri 21/12/01
311	*3.3.3*	*OSLR*	*Reconstruction as good as ATREC*	*Fri 22/12/00*	*Fri 22/12/00*
312	**3.9.4**	**OSRS**	**B tagging**	**Wed 1/3/00**	**Fri 21/12/01**
313	3.9.4	OSRS	Improve algorithm	Wed 1/3/00	Fri 21/12/01
314	3.9.4	OSRS	OO/C++ design and implementation	Wed 1/3/00	Fri 21/12/01
315	*3.3.3*	*OSLR*	*Reconstruction as good as ATREC*	*Fri 22/12/00*	*Fri 22/12/00*
316	*3.9*	*OSR*	*ATRECON-like reconstruction in new fr*	*Fri 22/12/00*	*Fri 22/12/00*
317	*3.9*	*OSR*	*First full release of OO/C++ reconstruct*	*Fri 21/12/01*	*Fri 21/12/01*
318	**3.10**	**OSB**	**Test beam infrastructure**	**Wed 1/3/00**	**Fri 21/12/01**
319	**3.11**	**OSA**	**Applications**	**Wed 1/3/00**	**Fri 21/12/01**
320	3.11.1	OSAI	Integration and testing	Wed 1/3/00	Fri 21/12/01
321	3.11.2	OSAM	Maintenance	Wed 1/3/00	Fri 21/12/01
322	**4**	**OU**	**Software Support**	**Wed 1/3/00**	**Fri 21/12/01**
323	4.1	OUR	Software repository	Wed 1/3/00	Fri 21/12/01
324	4.2	OUT	Development tools	Wed 1/3/00	Fri 21/12/01
325	4.3	OUE	Training	Wed 1/3/00	Fri 21/12/01
326	4.4	OUD	Documentation	Wed 1/3/00	Fri 21/12/01
327	**5**	**OI**	**Infrastructure**	**Wed 1/3/00**	**Thu 30/6/05**
328	**5.1**	**OIR**	**Reconstruction farm**	**Mon 2/12/02**	**Thu 30/6/05**
336	**5.2**	**OIM**	**Computing model for analysis**	**Thu 2/3/00**	**Fri 21/12/01**
337	**5.3**	**OIW**	**World-wide computing**	**Wed 1/3/00**	**Fri 21/12/01**
340	**6**	**OP**	**Data Production**	**Thu 1/3/01**	**Fri 20/12/02**
341	6	OP	Production for T/DAQ TDR	Thu 1/3/01	Wed 25/4/01
342	6	OP	Production for MDC 0	Mon 1/10/01	Wed 31/10/01



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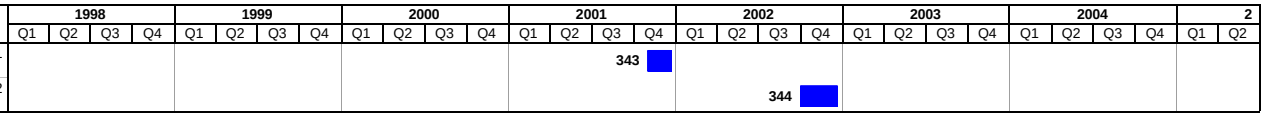
ID	PBS	PBS-Nam	Task Name	Start	Finish
343	6	OP	Production for MDC 1	Thu 1/11/01	Fri 21/12/01
344	6	OP	Production for MDC 2	Tue 1/10/02	Fri 20/12/02