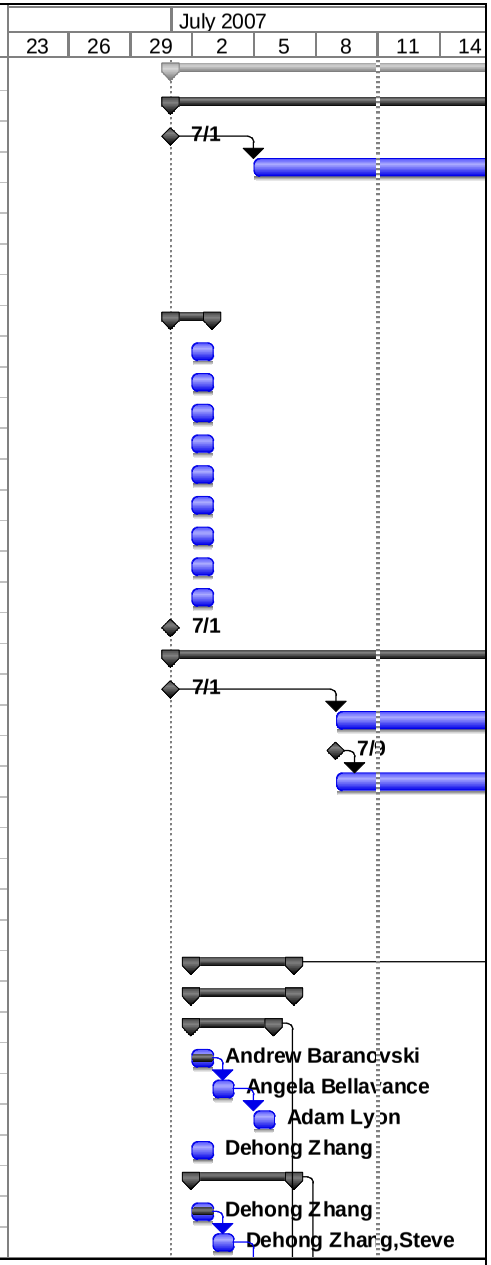
ID		WBS	Task Name	Lead	Resource Initials	Predec	Soft Links
0			**D0 Grid Production Computing Initiative**	**Boehnlein**			
1		**1**	**D0 Grid Production Architecture**	**Adam Lyon**			
2	✓	1.1	INPUT: Draft architecture document v1.2	Adam Lyon	AL		
3		1.2	Create architecture document v2, with APIs, component responsibilities	Adam Lyon	ASB,AL	2	
4		1.3	MILESTONE: Draft architecture document v2	Adam Lyon		3	
5		1.4	Architecture document v2 approval - D0	ber Boehnlein	ASB	4	
6		1.5	Architecture document v2 approval - CD	ber Boehnlein	ASB	4	
7		1.6	MILESTONE: D0 Grid Production Architecture document	Adam Lyon		6,5	
8		**2**	**Adjust responsibilities among SamGrid, D0runjob, D0repro tools**	**ro,D0runjob**			
9		2.1	Define scope of work for automc				
10		2.2	Define scope of work for D0 repro tools				
11		2.3	Define scope of work for D0runjob				
12		2.4	Define scope of work for SamGrid				
13		2.5	Design achievable APIs, component responsibilities	epro,D0runjob			
14		2.6	Agreement on achievable architecture and plan to achieve it				
15		2.7	Agreement on Unit and Integration testing responsibilities				
16		2.8	Create document describing implementation of tool responsibilities				
17		2.9	Post-release evaluation of responsibilities				
18		2.10	MILESTONE: Achieve architecture-defined responsibilities among tools				
19		**3**	**Reduce Operations Load of Grid Production**	**G., Adam L.**			
20	✓	3.1	INPUT: Write-up of operations issues	Gabriele G.	GG		
21		3.2	Describe current Operations load and activities: level and causes	Gabriele G.	PM,RDK,AL	20	
22		3.3	INPUT: FY08 REX budget determined	Rick S.			
23		3.4	Determine acceptable future Operations load level and activities	am L., Rick S.	AL	22	
24		3.5	Plan how to reduce Operations load level to acceptable level	e G., Adam L.	PM,AL,RDK	21,23	
25		3.6	MILESTONE: Operations reduction plan document			24	
26		3.7	EXECUTE operations reduction plan	e G., Adam L.	GG,PM	25	
27		3.8	Post-evaluation of operations load by dev and ops groups	e G., Adam L.	PM,AL,RDK	26	
28		3.9	MILESTONE: Achieve acceptable Operations level			27	
29		**4**	**Operations Support Transition from SamGrid to Run2 Ops**	**G., Adam L.**			
30		**4.1**	**Operations Documentation**	**Adam Lyon**	**PM,AB3,AL**		
31		**4.1.1**	**Data Queues Doc**	**Adam Lyon**	**B3,AL,AB2**		
32	✓	4.1.1.1	Data Queues Doc: Recent Draft	Adam Lyon	AB2		
33		4.1.1.2	Data Queues Doc: Feed-back, update	Adam Lyon	AB3	32	
34		4.1.1.3	Data Queues Doc: Approve	Adam Lyon	AL	33	
35		4.1.1.4	Data Queues Doc: Integrate into SamGrid Documentation	Adam Lyon	DZ		
36		**4.1.2**	**Forwarding Node Installation Doc**	**Adam Lyon**	**SS,AL,DZ**		
37	✓	4.1.2.1	Fwd Node Install Doc: Recent Draft	Adam Lyon	DZ		
38		4.1.2.2	Fwd Node Install Doc: Feed-back, update	Adam Lyon	DZ,SS	37	



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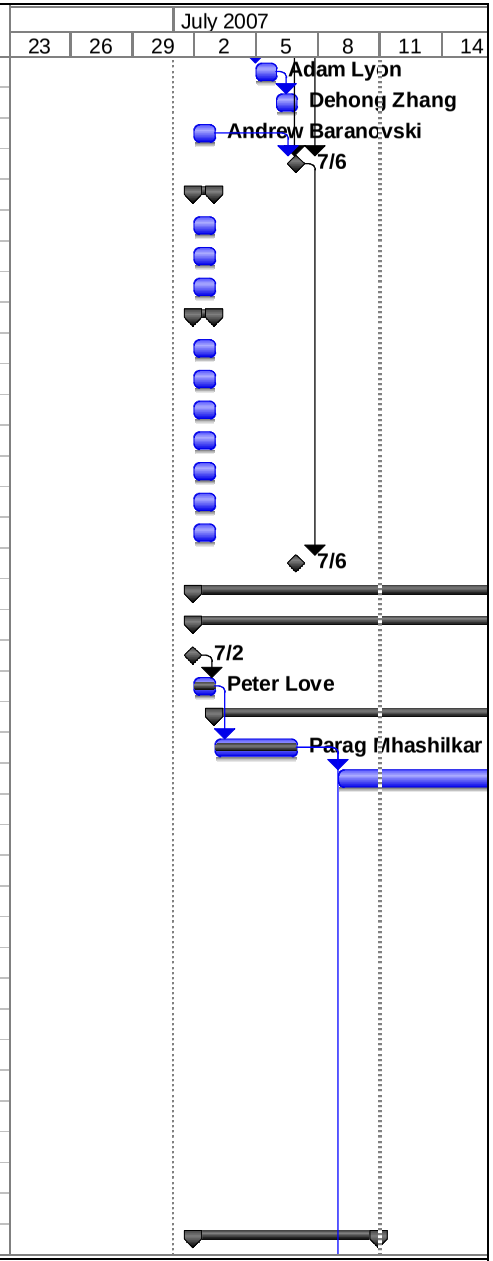
39		4.1.2.3	Fwd Node Install Doc: Approve	Adam Lyon	AL	38	
40		4.1.2.4	Fwd Node Install Doc: Integrate into SamGrid Installation Manual	Adam Lyon	DZ	39	
41		4.1.3	Integrating SRM Storage with SAM Doc	GG	AB2		
42		4.1.4	MILESTONE: Operations Documentation prepared for transition			31,36,	
43		**4.2**	**Transition Plan**				
44		4.2.1	Develop a multi-phase transition plan				
45		4.2.2	Define processes for post-transition integration and deployment				
46		4.2.3	Define processes for post-transition change requests, bug fixes				
47		**4.3**	**Training**				
48		4.3.1	General Training Sessions				
49		4.3.2	Assisted Hands-on Real-life Experience				
50		4.3.3	One-on-one Sessions on Specific Operations Topics				
51		4.3.4	One-on-one Sessions on Specific Component Topics				
52		4.4	Creation of SamGrid Integration Testbed				
53		4.5	Trial roll-out: Test processes pre-transition				
54		4.6	Evaluate processes post-transition				
55		4.7	MILESTONE: Achieve support transition to Run2 Ops team			42	
56		**5**	**Grid Production System**				
57		**5.1**	**Decouple D0runjob macro and SamGrid**				
58	✓	5.1.1	INPUT: Interface changes documented		PM		
59	✓	5.1.2	Decouple D0runjob macro and SamGrid development work		PL	58	
60		**5.1.3**	**MC Job Type**				
61	✓	5.1.3.1	Decouple MC Job Type: Integration		PM	59	
62		5.1.3.2	Decouple MC Job Type: Production-level test		JS	61	
63		5.1.3.3	MILESTONE: Decoupled for MC job type			62	
64		**5.1.4**	**Reco Job Type**				
65		5.1.4.1	Decouple Reco Job Type: Integration		PM	63	
66		5.1.4.2	Decouple Reco Job Type: Production-level test		JS	65	
67		5.1.4.3	MILESTONE: Decoupled for Reco job type			66	
68		**5.1.5**	**Skim Job Type**				
69		5.1.5.1	Decouple Skim Job Type: Integration		PM	63	
70		5.1.5.2	Decouple Skim Job Type: Production-level test		JS	69	
71		5.1.5.3	MILESTONE: Decoupled for Skim job type			70	
72		**5.1.6**	**Merge Job Type**				
73		5.1.6.1	Decouple Merge Job Type: Integration		AB2	63	
74		5.1.6.2	Decouple Merge Job Type: Production-level test		JS	73	
75		5.1.6.3	MILESTONE: Decoupled for Merge job type			74	
76		5.1.7	MILESTONE: D0runjob macro and SamGrid decoupled			63,67,	
77		**5.2**	**Start Prod via SAM Definition from any stage of Prod**				



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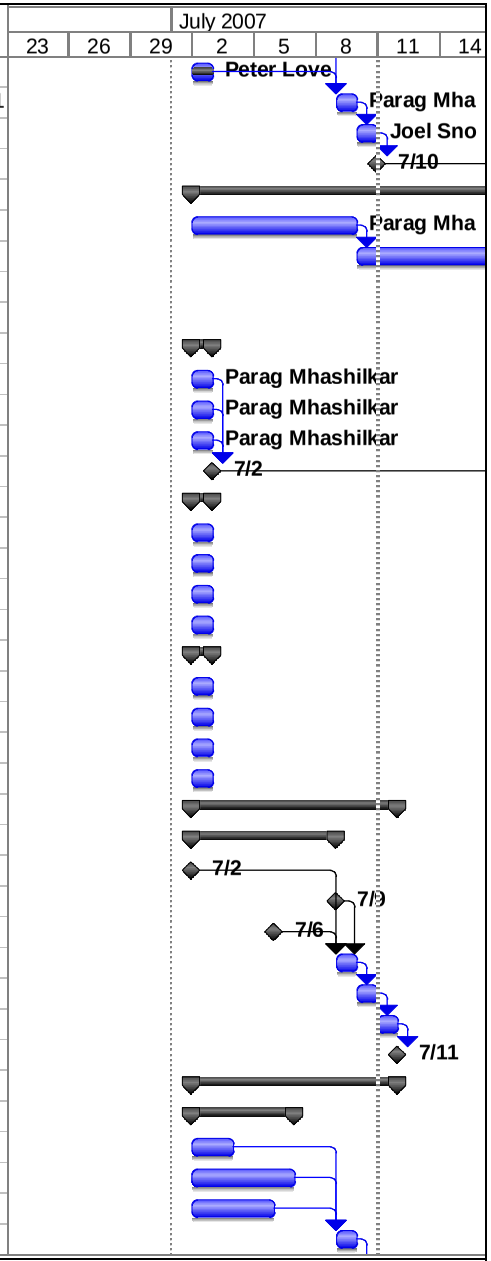
78	✓	5.2.1	Start Prod Any Stage: D0runjob development		PL		
79		5.2.2	Start Prod Any Stage: SamGrid development/integration		PM	78,61	61
80		5.2.3	Start Prod Any Stage: Production-level test		JS	79	
81		5.2.4	MILESTONE: Feature Ready for Production Release			80	
82		**5.3**	**Fix "Immortal Jobs" Operations Issue**				
83		5.3.1	Fix Immortal Jobs: Migration to new VDT for security bug fixes		PM		
84		5.3.2	Fix Immortal Jobs: SamGrid development/integration		PM	83	
85		5.3.3	Fix Immortal Jobs: Production-level test		JS	84	
86		5.3.4	MILESTONE: Fix Ready for Production Release			85	
87		**5.4**	**Automate Mgmt of XML database (SamGrid monitoring,config)**				
88		5.4.1	Auto Mgmt XML DB: Handle disk full condition		PM		
89		5.4.2	Auto Mgmt XML DB: Large DB performance degradation		PM		
90		5.4.3	Auto Mgmt XML DB: Infrequent index corruption		PM		
91		5.4.4	MILESTONE: Ops Scripts automate mgmt of XML DB			88,89,9	
92		**5.5**	**Development Activities to Adjust Responsibilities**				
93		5.5.1	D0repro tools adapted to use Sam v7				
94		5.5.2	D0runjob sets up its own environment				
95		5.5.3	Fabric interface no longer dependent on Job Type				
96		5.5.4	All merge code into D0runjob				
97		**5.6**	**Development Activities to Automate Operations**				
98		5.6.1	Adoption of Runjob macro-preprocessor				
99		5.6.2	Generalization of Job Types according to I/O Characteristics				
100		5.6.3	Worker Node Environment Testbed for Runjob				
101		5.6.4	Monitoring Information improvements				
102		**5.7**	**Production Release N.1 (example layout 1)**				
103		**5.7.1**	**Feature List (each passed unit tests)**				
104		5.7.1.1	INPUT: SamGrid Feature A				
105		5.7.1.2	INPUT: D0 ReproTools Feature B				
106		5.7.1.3	INPUT: D0 Runjob Feature C				
107		5.7.2	Integration Testing			104,10	
108		5.7.3	Production-level User Testing			107	
109		5.7.4	Prepare Release for Deployment			108	
110		5.7.5	MILESTONE: Release N.1 completed			109	
111		**5.8**	**Production Release N.2 (example layout 2)**				
112		**5.8.1**	**Feature Development and Unit Testing**				
113		5.8.1.1	SamGrid Feature A				
114		5.8.1.2	D0 ReproTools Feature B				
115		5.8.1.3	D0 Runjob Feature C				
116		5.8.2	Integration Testing			113,11	



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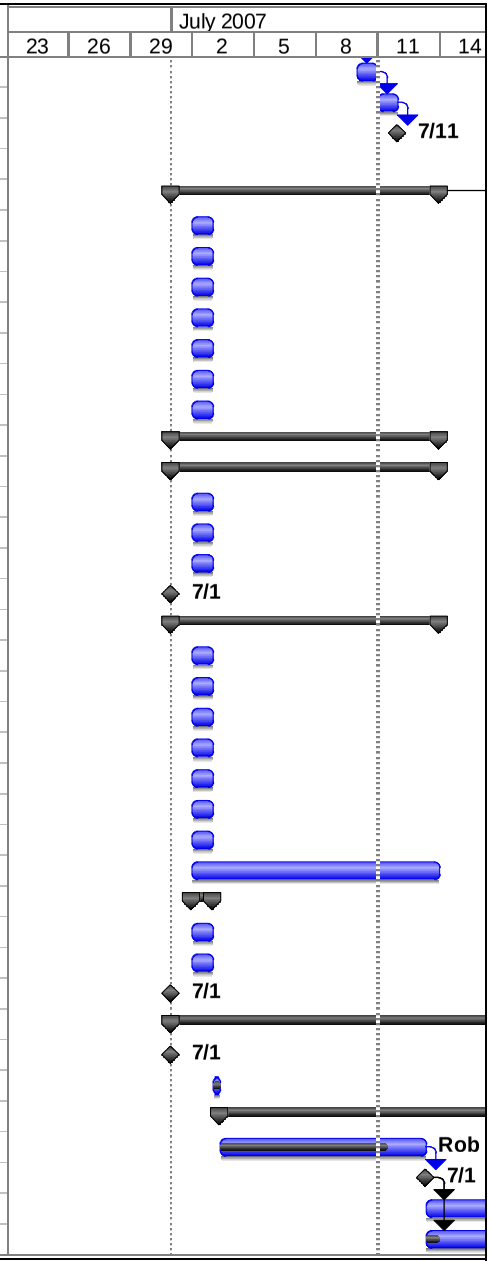
117		5.8.3	Production-level User Testing			116	
118		5.8.4	Prepare Release for Deployment			117	
119		5.8.5	MILESTONE: Release N.1 completed			118	
120		5.9	MILESTONE: Grid Production System completed			76,81,8	
121		**6**	**Current Work: D0 Apps on Grid Production System**	**Brad Abbott**			
122		6.1	Skimming				
123		6.2	Fixing				
124		6.3	Raw2Sim				
125		6.4	Reco-cert				
126		6.5	CAF				
127		6.6	MC CAF				
128		6.7	AADST				
129		**6.8**	**Reco**				
130		**6.8.1**	**D0 Primary Production on Fermigrid**	**ike Diesburg**	**MD**		
136		6.8.2	Ability to merge more than 1 stream from Reco				
137		6.9	MC Production				
138		6.10	Grid Analysis				
139		6.11	MILESTONE: Achieve deployment or functionality necessary to support futu				
140		**7**	**Eval for Future: D0 Apps on Grid Production System**				
141		7.1	Skimming				
142		7.2	Fixing				
143		7.3	Raw2Sim				
144		7.4	Reco-cert				
145		7.5	CAF				
146		7.6	MC CAF				
147		7.7	AADST				
148		7.8	Reco				
149		**7.9**	**MC Production**				
150		7.9.1	Ability to run TrigSim in MC Production				
151		7.10	Grid Analysis				
152		7.11	MILESTONE: Evaluation of work necessary for future deployment				
153		**8**	**Project Management**	**ob Kennedy**			
154		8.1	INPUT: Draft Preliminary High-level WBS	Rob Kennedy	RDK		
155		**8.2**	**Initiative Coordination Meeting**	**ob Kennedy**	**,GG,PM,AL**		
170		**8.3**	**Planning and Setup**	**ob Kennedy**			
171		8.3.1	WBS/Schedule v0.8 for 3/7 areas	Rob Kennedy	RDK	156	
172		8.3.2	MILESTONE: WBS/Schedule v0.8 sufficient to drive some work	Rob Kennedy	RDK	171	
173		8.3.3	WBS/Schedule v1.0 for 5/7 areas	Rob Kennedy	RDK	172	
174		8.3.4	Project Definition Document: Draft w/o WBS/Schedule	Rob Kennedy	RDK	172	



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175		8.3.5	Project Definition Document: Integrate components, feed-back	Rob Kennedy	RDK	174	
176		8.3.6	Project Definition Approval: ABS, CD	Rob Kennedy	RDK	173,17	
177		8.3.7	MILESTONE: Plan v1.0 sufficient to drive near-term work	Rob Kennedy	RDK	176	
178		8.3.8	Baseline WBS/Schedule v2.0 for ~7/7 areas	Rob Kennedy	RDK	177	
179		8.3.9	Project Execution Plan: Draft w/o WBS/Schedule	Rob Kennedy	RDK	177	
180		8.3.10	Project Execution Plan: Integrate components, feed-back	Rob Kennedy	RDK	179,17	
181		8.3.11	Project Execution Plan Approval: ABS, CD	ber Boehnlein	RDK	180	
182		8.3.12	MILESTONE: Plan v1.1 project baseline	Rob Kennedy	RDK	181	
183		**8.4**	**Project Administration**	**ob Kennedy**			
184		8.4.1	Planning Phase (Level of Effort)	Rob Kennedy	RDK	177	
185		8.4.2	Execution Phase (Level of Effort)	Rob Kennedy	RDK	184,18	
186		**8.4.3**	**Close-Out Phase**	**ob Kennedy**	**RDK**	**1,19,2**	
191		9	MILESTONE: Initiative completed	ber Boehnlein	ASB	186	

July 2007: 23, 26, 29, 2, 5, 8, 11, 14

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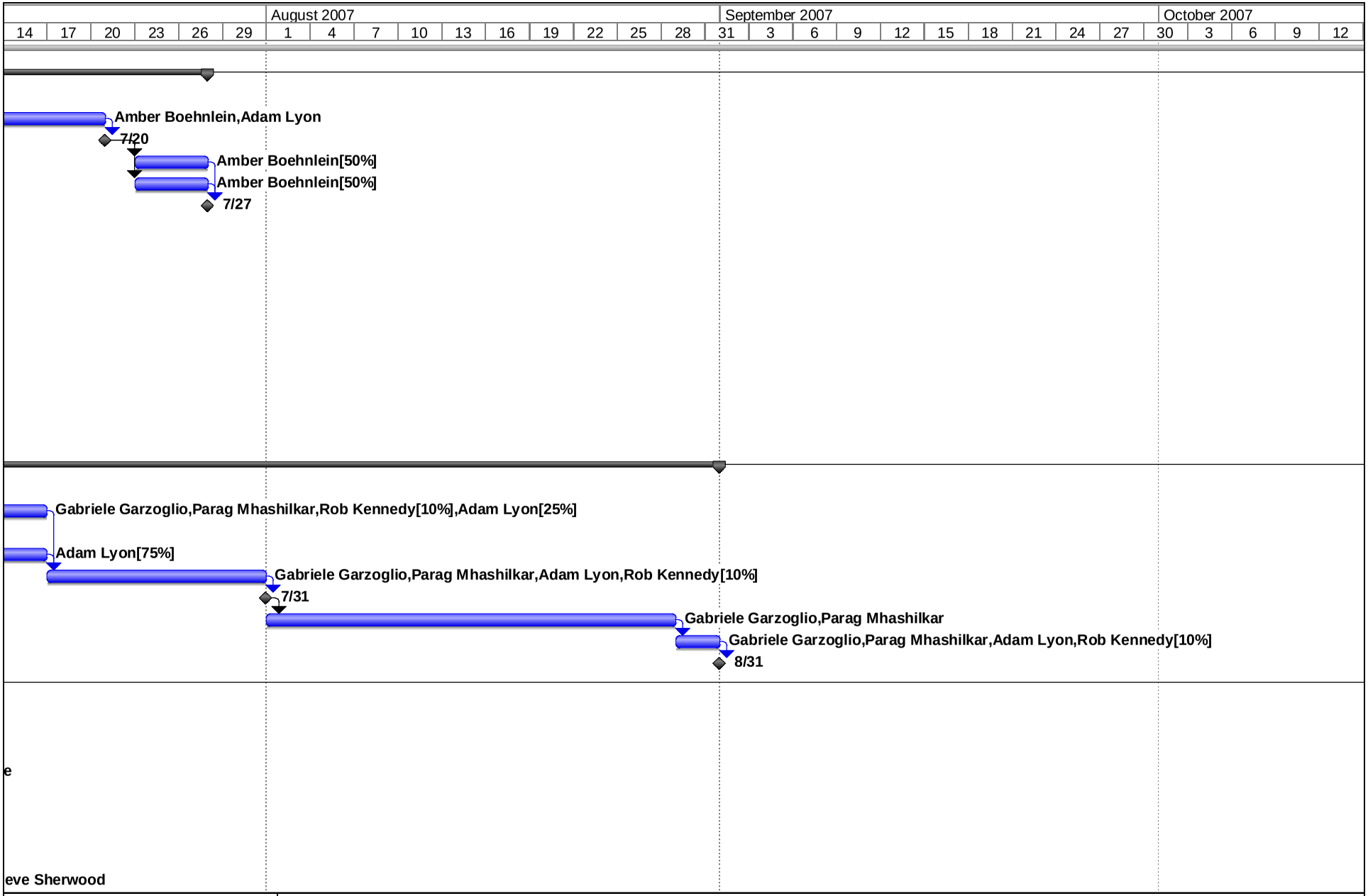

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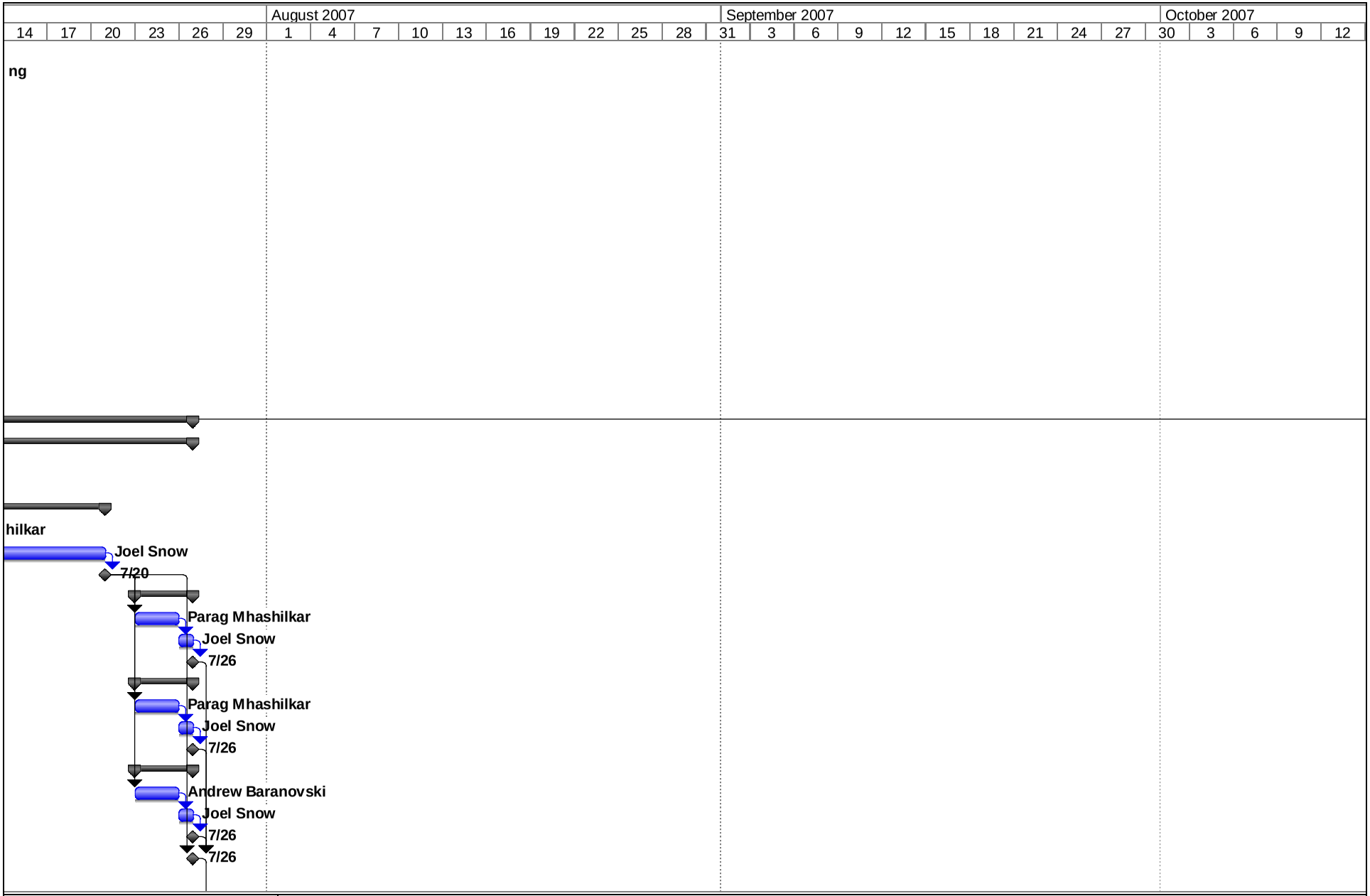

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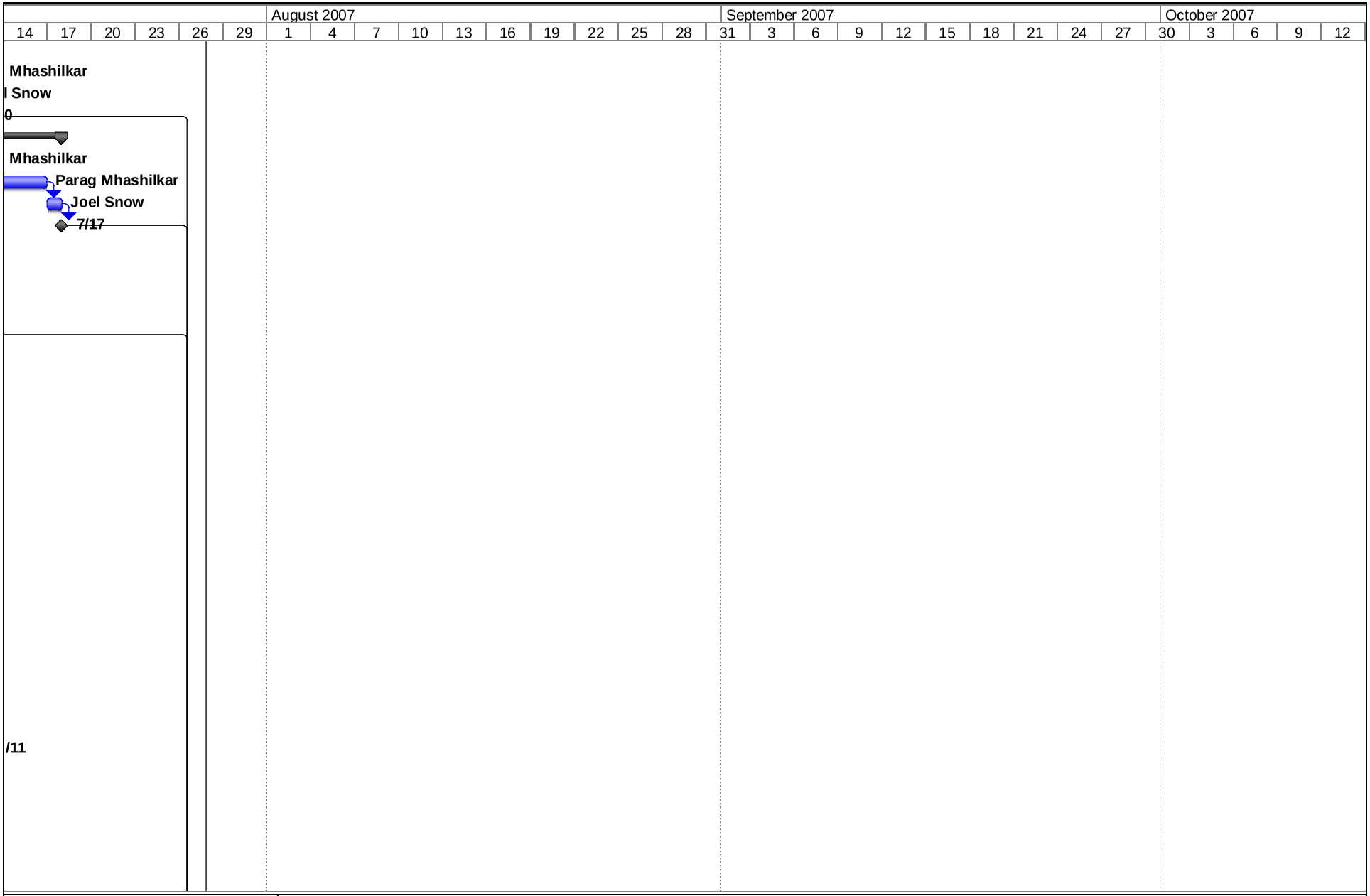

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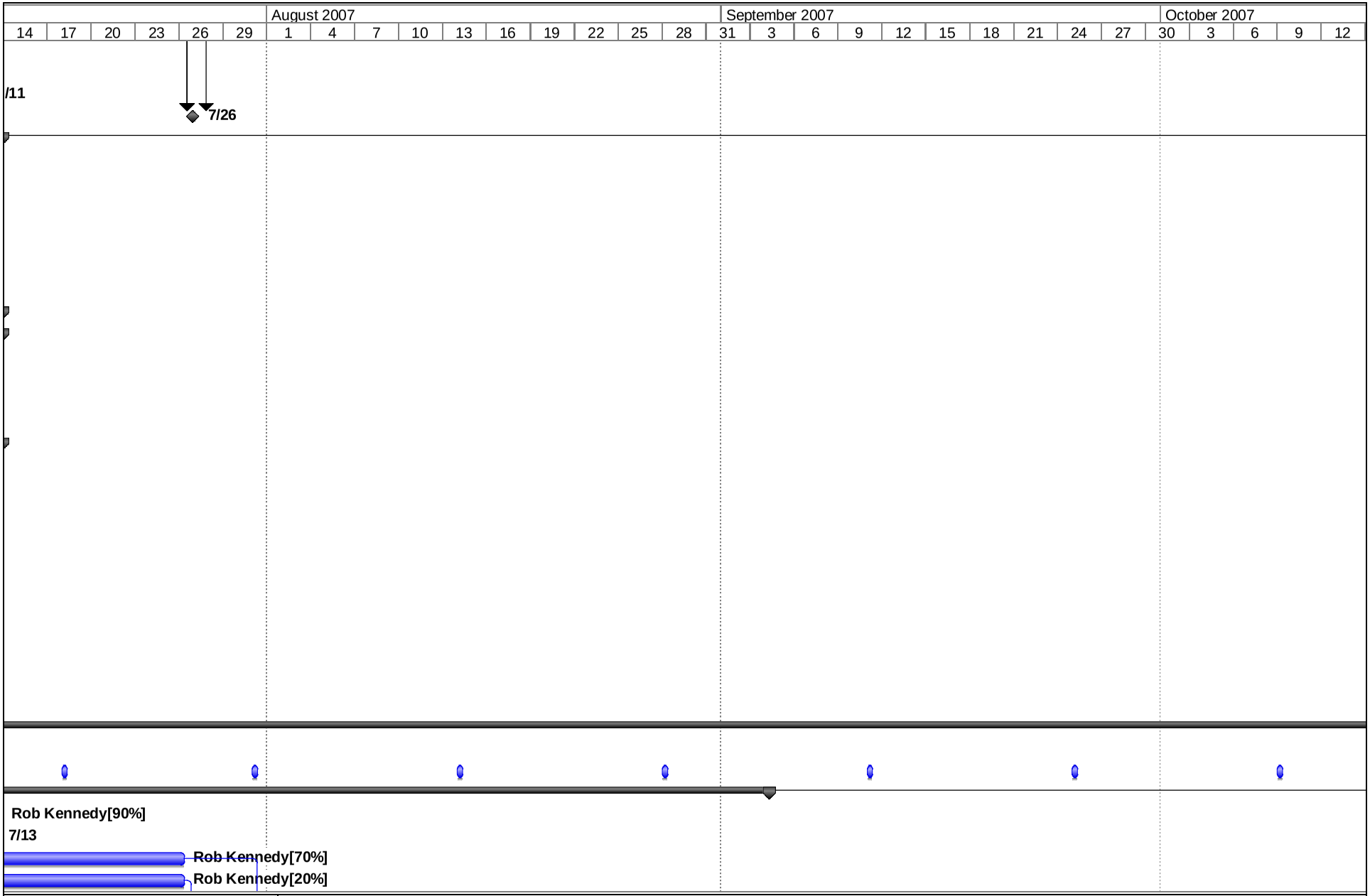

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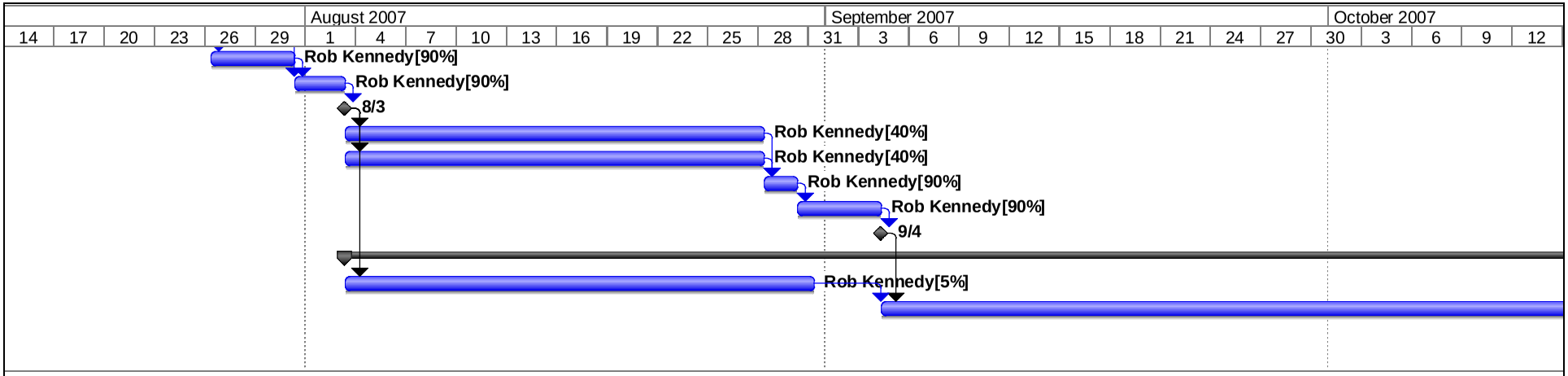

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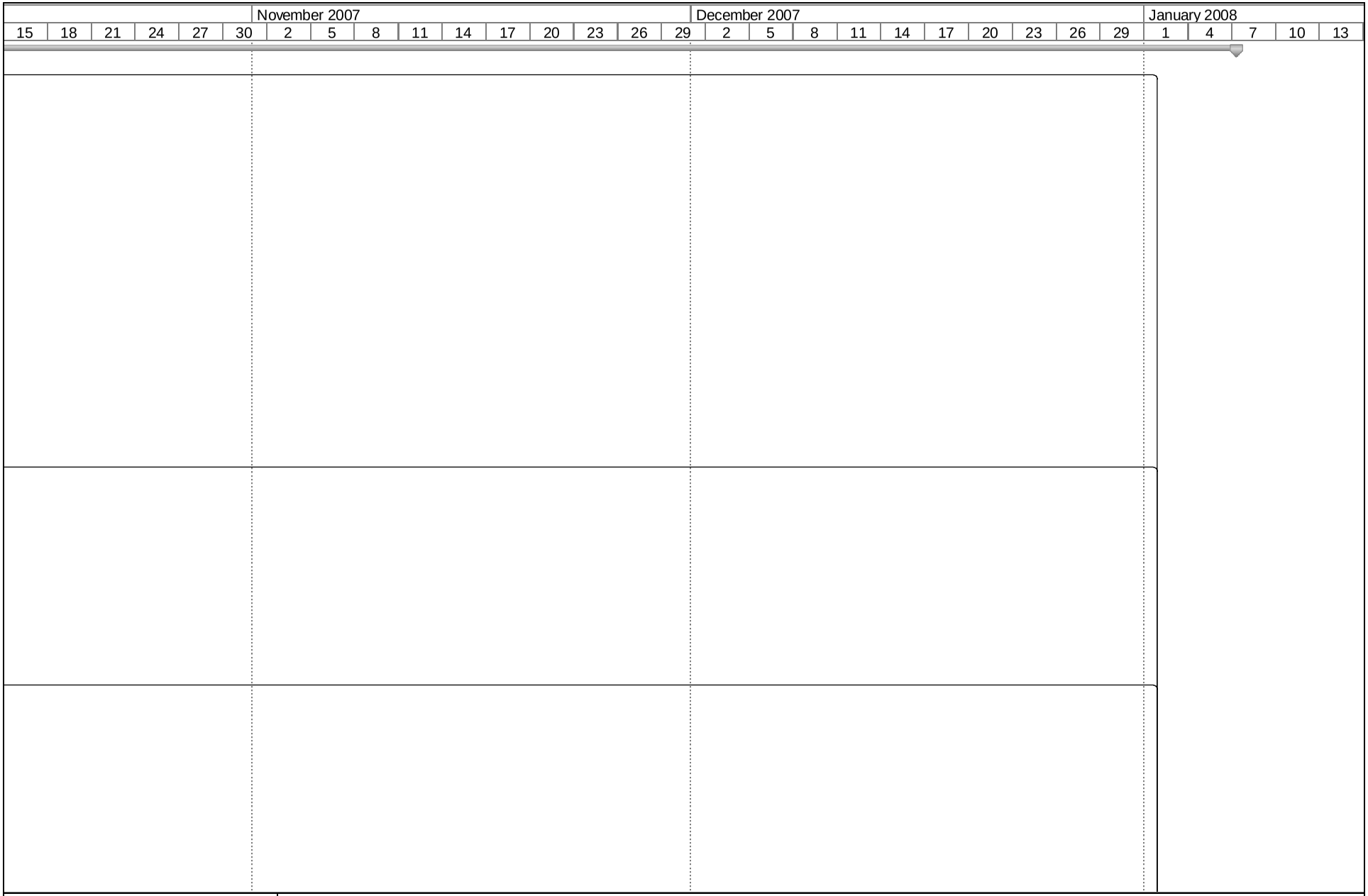

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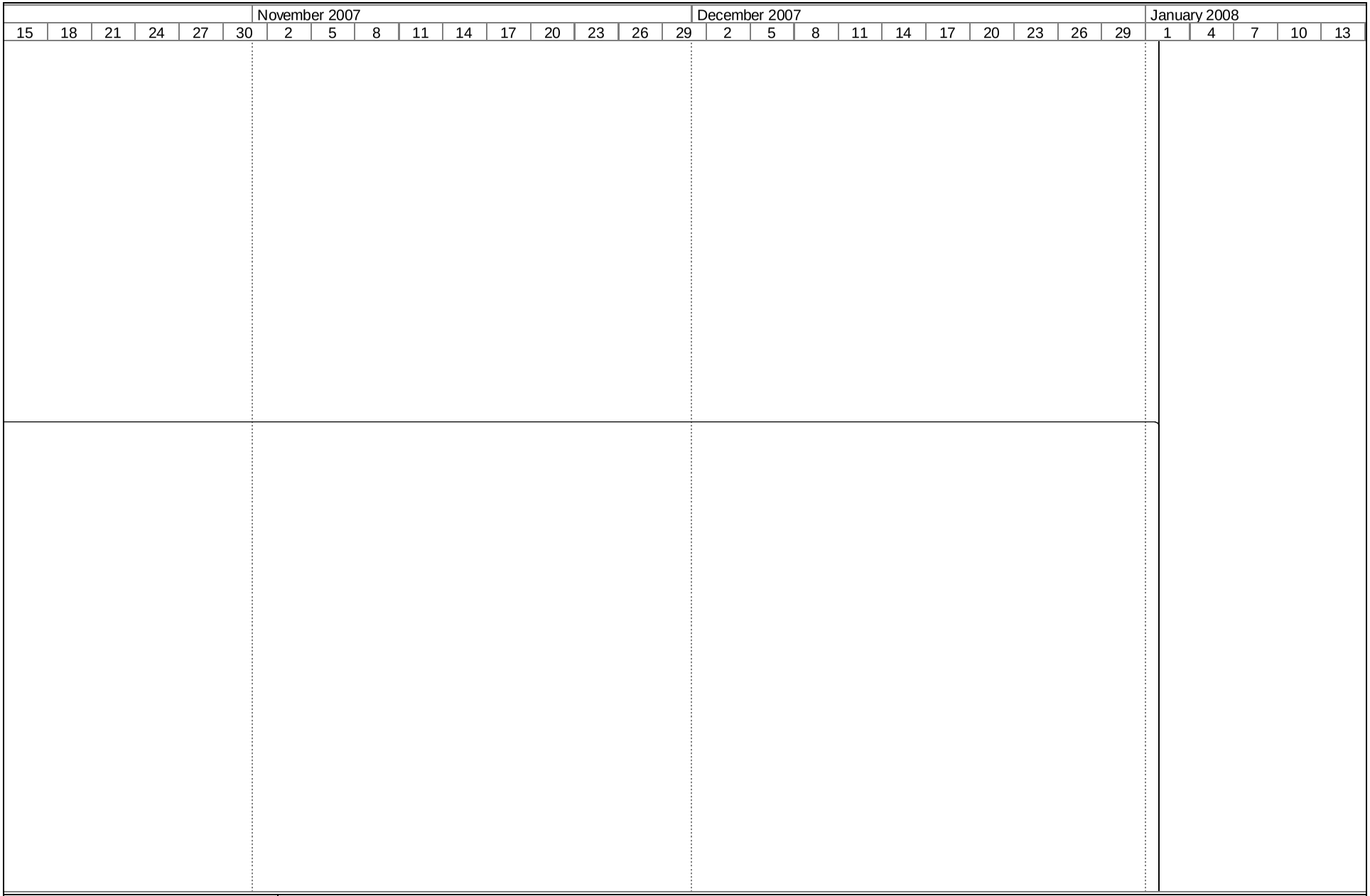

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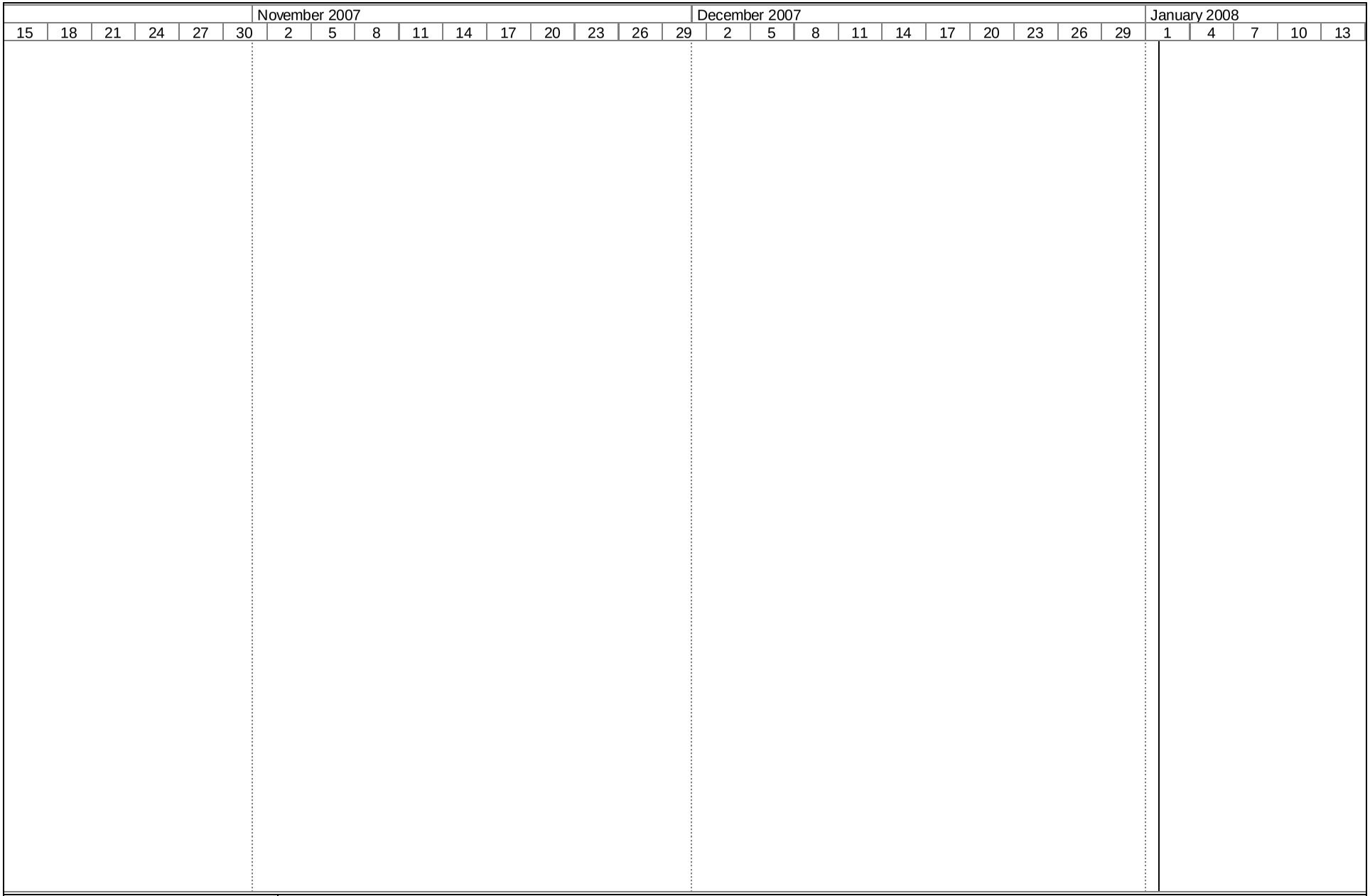

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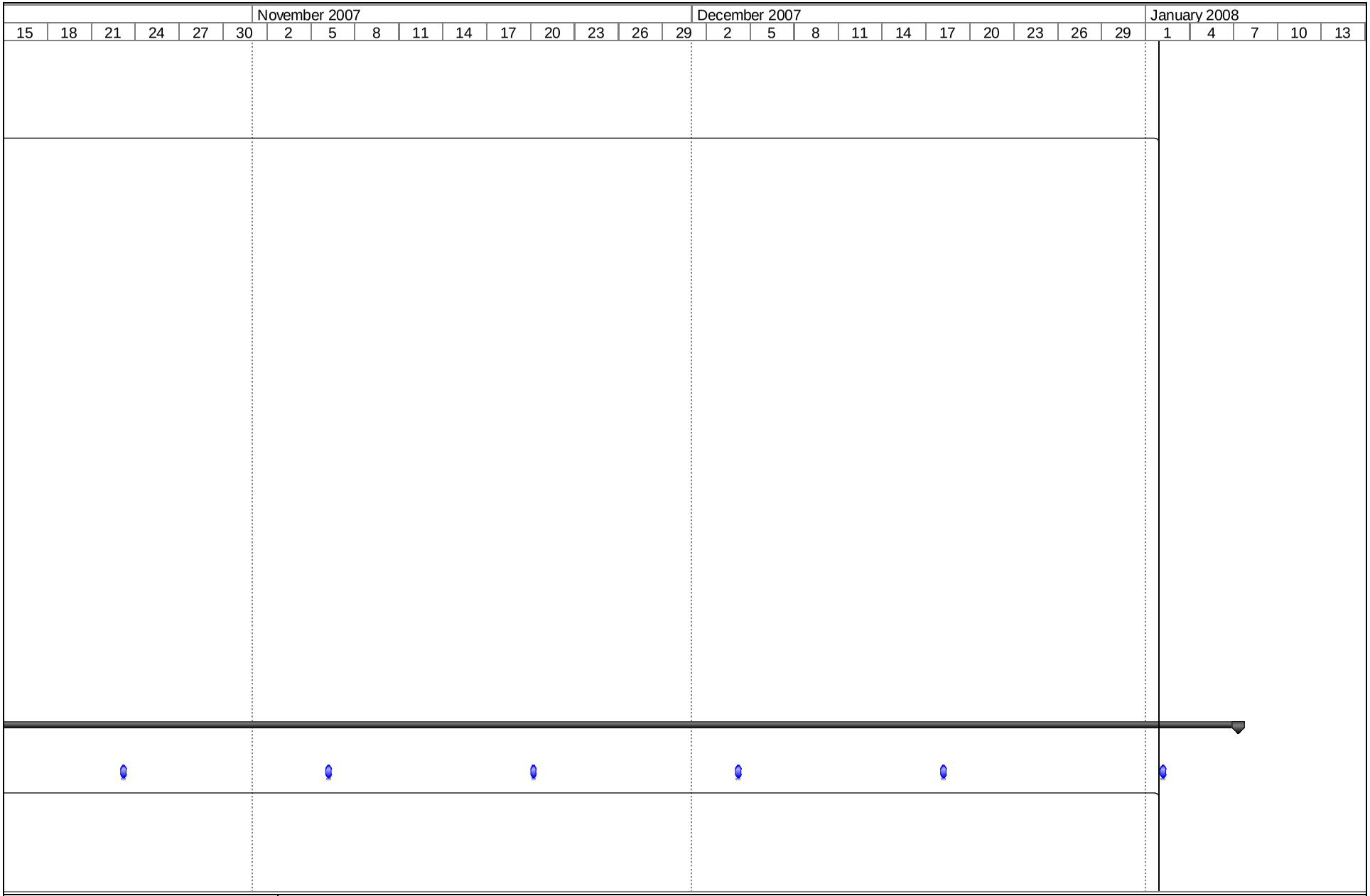

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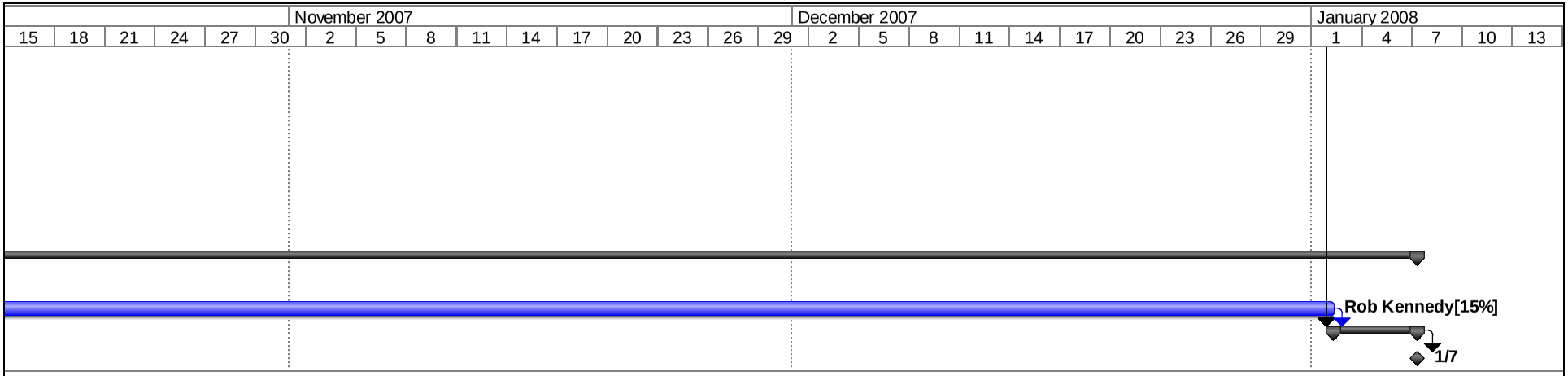

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