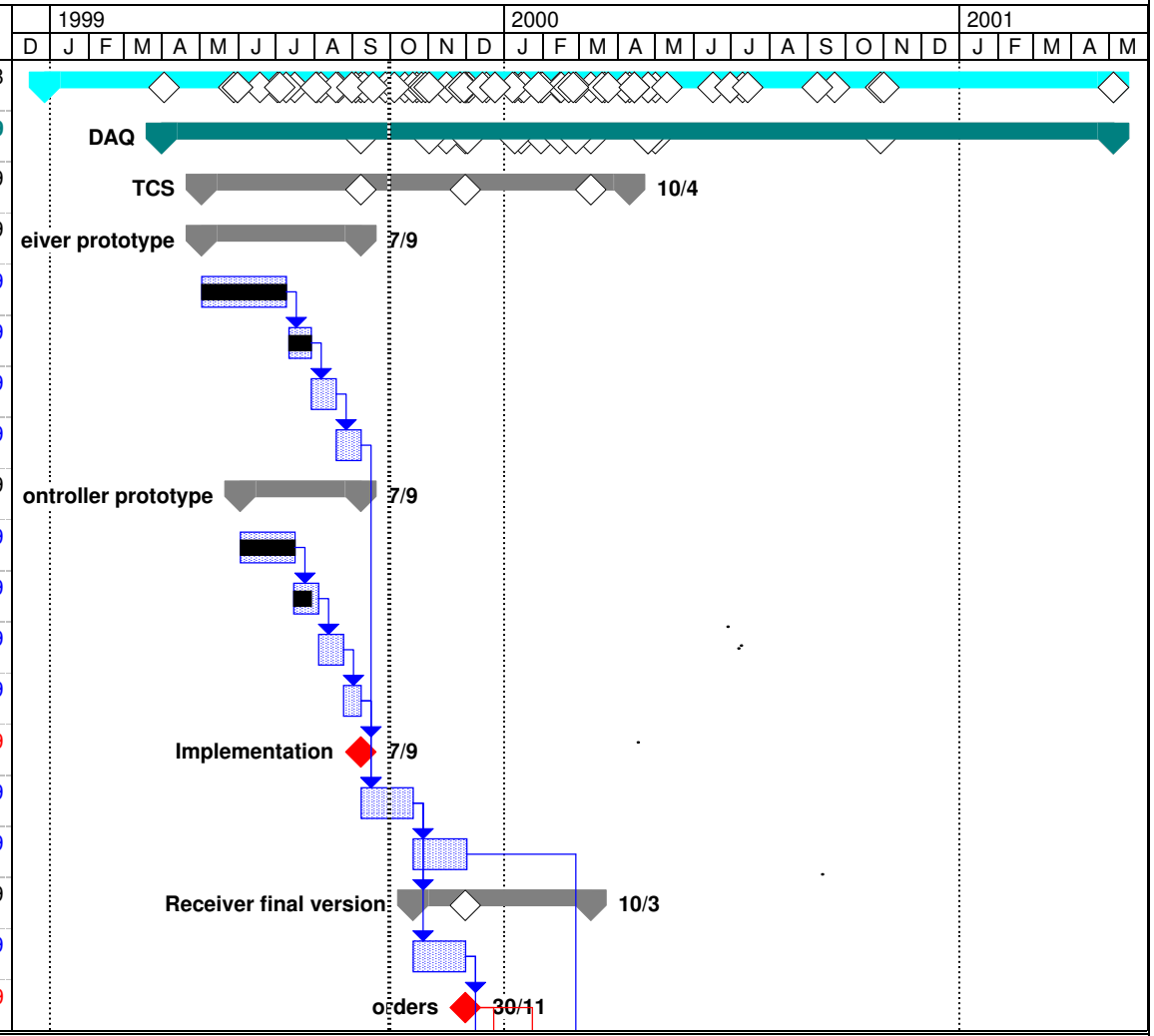
# Compass Spectrometer / CERN

Thu 30/9/99

| ID | Task Name | Duration | Start |
|---|---|---|---|
| 1 | compass | 615 days | Mon 28/12/98 |
| 2 | **DAQ** | **547 days** | **Thu 1/4/99** |
| 1 | TCS | 246 days | Mon 3/5/99 |
| 2 | Receiver prototype | 92 days | Mon 3/5/99 |
| 3 | development | 50 days | Mon 3/5/99 |
| 4 | layout | 14 days | Mon 12/7/99 |
| 5 | PCB production | 14 days | Fri 30/7/99 |
| 6 | assembly and debuggin | 14 days | Thu 19/8/99 |
| 7 | Controller prototype | 69 days | Thu 3/6/99 |
| 8 | development | 32 days | Thu 3/6/99 |
| 9 | layout | 14 days | Fri 16/7/99 |
| 10 | PCB production | 14 days | Thu 5/8/99 |
| 11 | assembly and debuggin | 10 days | Wed 25/8/99 |
| 12 | Implementation | 0 days | Tue 7/9/99 |
| 13 | System test | 30 days | Wed 8/9/99 |
| 14 | Controler firmware update | 31 days | Wed 20/10/99 |
| 15 | Receiver final version | 103 days | Wed 20/10/99 |
| 16 | design | 30 days | Wed 20/10/99 |
| 17 | orders | 0 days | Tue 30/11/99 |




Project: Compass Spectrometer
Date: Mon 2/8/99
Co-ordinator: Gerhard Mallot /CERN

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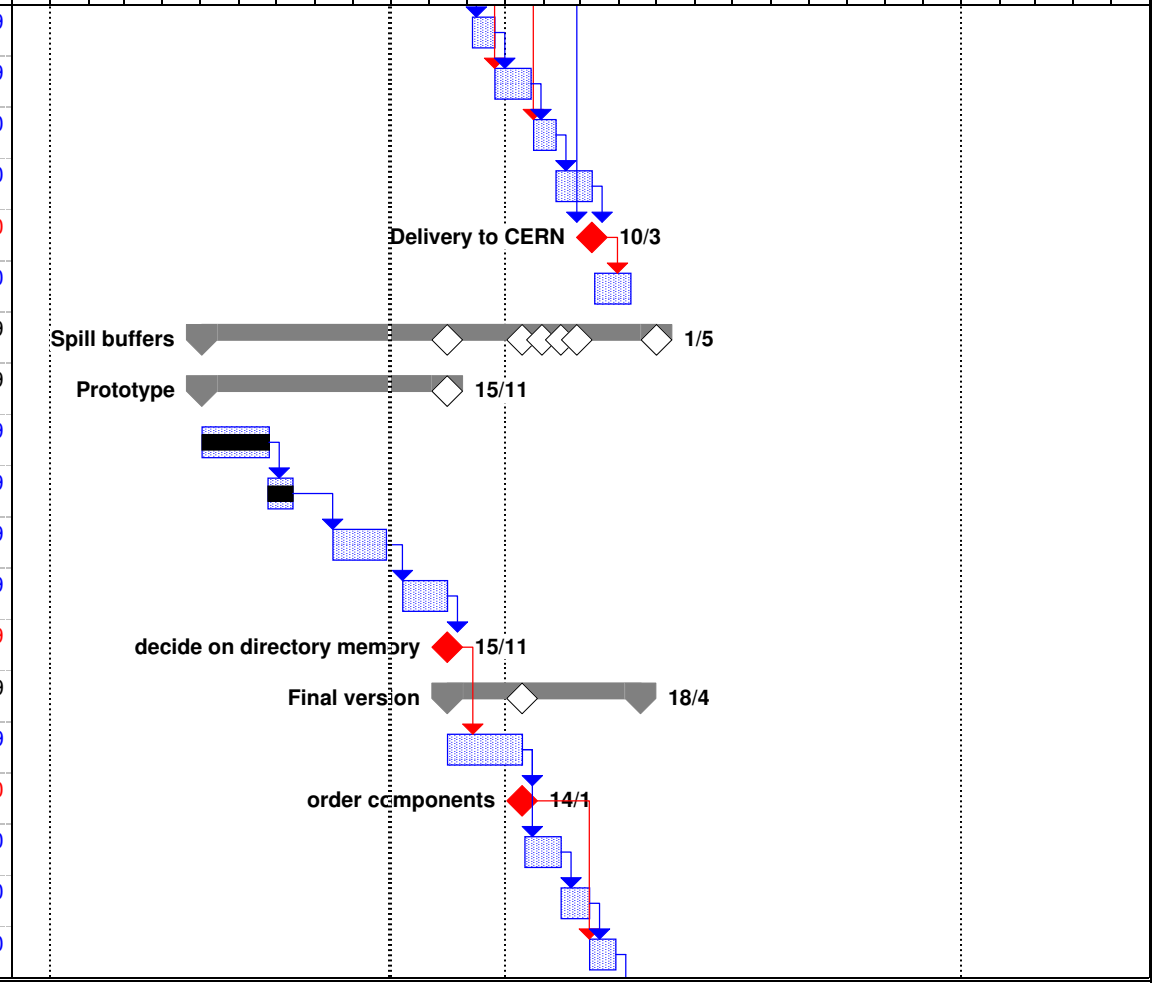
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 18 | layout | 14 days | Mon 6/12/99 |
| 19 | PCB production | 21 days | Fri 24/12/99 |
| 20 | assembly | 14 days | Mon 24/1/00 |
| 21 | test cards | 21 days | Fri 11/2/00 |
| 22 | Delivery to CERN | 0 days | Fri 10/3/00 |
| 23 | System installation | 21 days | Mon 13/3/00 |
| 24 | Spill buffers | 261 days | Mon 3/5/99 |
| 25 | Prototype | 141 days | Mon 3/5/99 |
| 26 | finish design | 40 days | Mon 3/5/99 |
| 27 | production | 14 days | Fri 25/6/99 |
| 28 | implementation | 31 days | Mon 16/8/99 |
| 29 | rate tests | 26 days | Mon 11/10/99 |
| 30 | decide on directory mem | 0 days | Mon 15/11/99 |
| 31 | Final version | 111 days | Tue 16/11/99 |
| 32 | redesign | 44 days | Tue 16/11/99 |
| 33 | order components | 0 days | Fri 14/1/00 |
| 34 | layout | 21 days | Mon 17/1/00 |
| 35 | PCB production | 17 days | Tue 15/2/00 |
| 36 | assembly | 15 days | Thu 9/3/00 |

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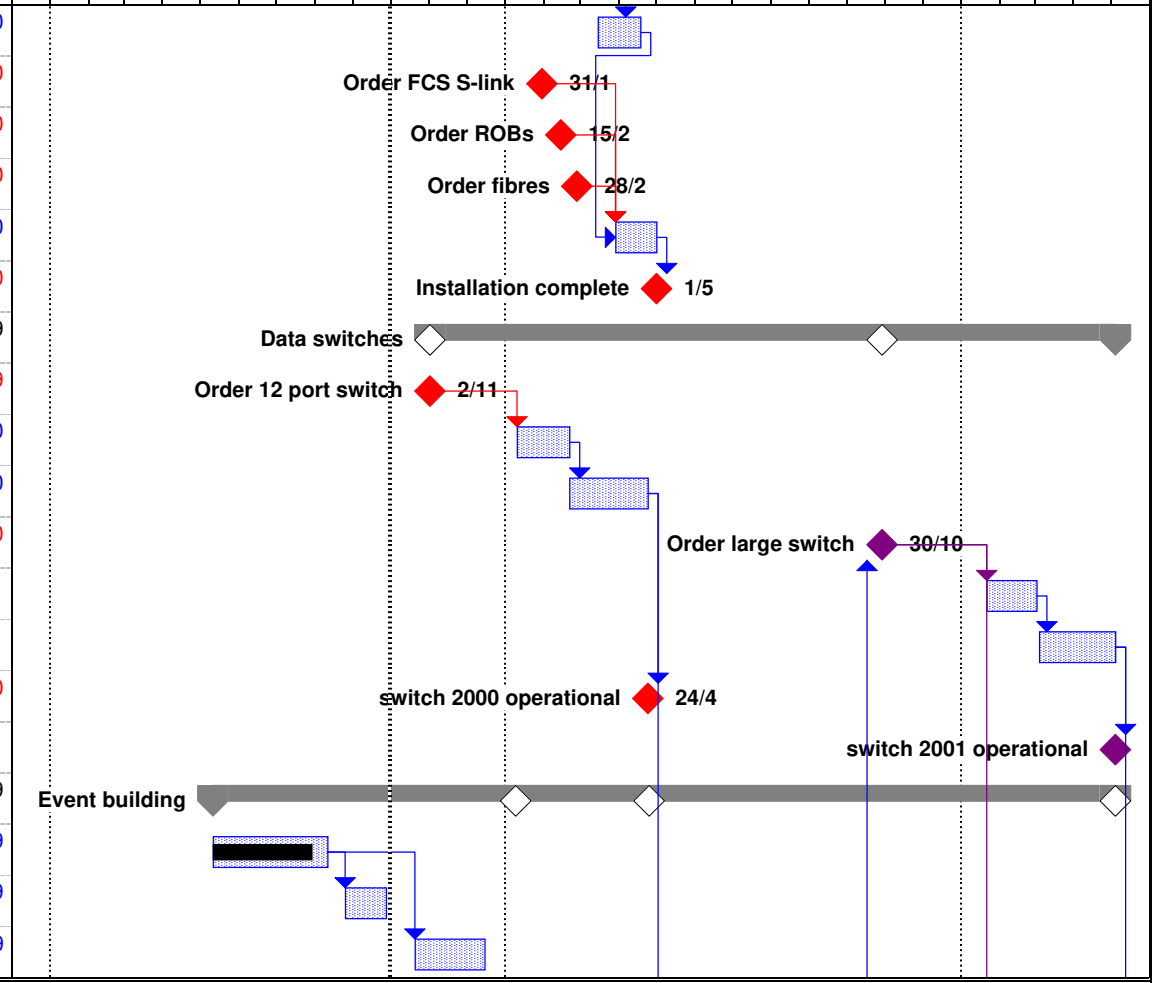
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 37 | board tests | 24 days | Thu 16/3/00 |
| 38 | Order FCS S-link | 0 days | Mon 31/1/00 |
| 39 | Order ROBs | 0 days | Tue 15/2/00 |
| 40 | Order fibres | 0 days | Mon 28/2/00 |
| 41 | Installation | 23 days | Thu 30/3/00 |
| 42 | Installation complete | 0 days | Mon 1/5/00 |
| 43 | Data switches | 394 days | Tue 2/11/99 |
| 44 | Order 12 port switch | 0 days | Tue 2/11/99 |
| 45 | Installation | 30 days | Tue 11/1/00 |
| 46 | Tests | 45 days | Tue 22/2/00 |
| 47 | Order large switch | 0 days | Mon 30/10/00 |
| 48 | Installation | 30 days | Mon 22/1/01 |
| 49 | Tests | 45 days | Mon 5/3/01 |
| 50 | switch 2000 operational | 0 days | Mon 24/4/00 |
| 51 | switch 2001 operational | 0 days | Fri 4/5/01 |
| 52 | Event building | 518 days | Wed 12/5/99 |
| 53 | DATE V3.4 | 66 days | Wed 12/5/99 |
| 54 | Burst eventbuilding | 23 days | Thu 26/8/99 |
| 55 | Test multi GDC | 40 days | Thu 21/10/99 |

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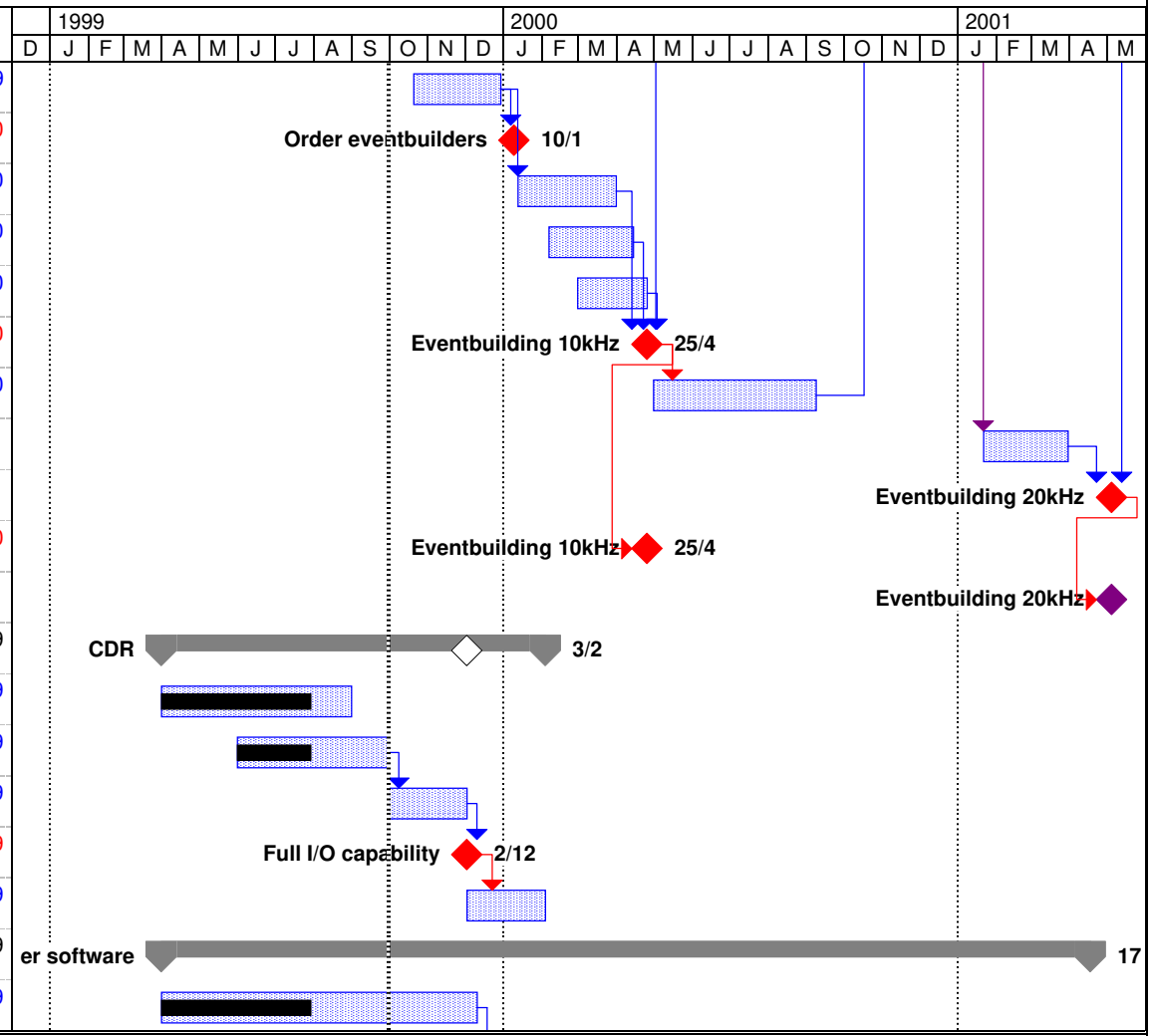
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 56 | Test platforms | 50 days | Thu 21/10/99 |
| 57 | Order eventbuilders | 0 days | Mon 10/1/00 |
| 58 | Finalize eventbuilder | 57 days | Thu 13/1/00 |
| 59 | CATCH LDCs | 50 days | Mon 7/2/00 |
| 60 | Adapt run control | 40 days | Wed 1/3/00 |
| 61 | Eventbuilding 10kHz | 0 days | Tue 25/4/00 |
| 62 | Running & rate tests | 95 days | Mon 1/5/00 |
| 63 | Adapt eventbuilding | 50 days | Mon 22/1/01 |
| 64 | Eventbuilding 20kHz | 0 days | Fri 4/5/01 |
| 65 | Eventbuilding 10kHz | 0 days | Tue 25/4/00 |
| 66 | Eventbuilding 20kHz | 0 days | Fri 4/5/01 |
| 67 | CDR | 221 days | Thu 1/4/99 |
| 68 | version 1.0 | 109 days | Thu 1/4/99 |
| 69 | objectivisation v1.2 | 88 days | Tue 1/6/99 |
| 70 | version 1.3 (tools, timeouts,re | 45 days | Fri 1/10/99 |
| 71 | Full I/O capability | 0 days | Thu 2/12/99 |
| 72 | HSM traffic (v1.4) | 45 days | Fri 3/12/99 |
| 73 | Other software | 534 days | Thu 1/4/99 |
| 74 | monitoring i/f | 182 days | Thu 1/4/99 |

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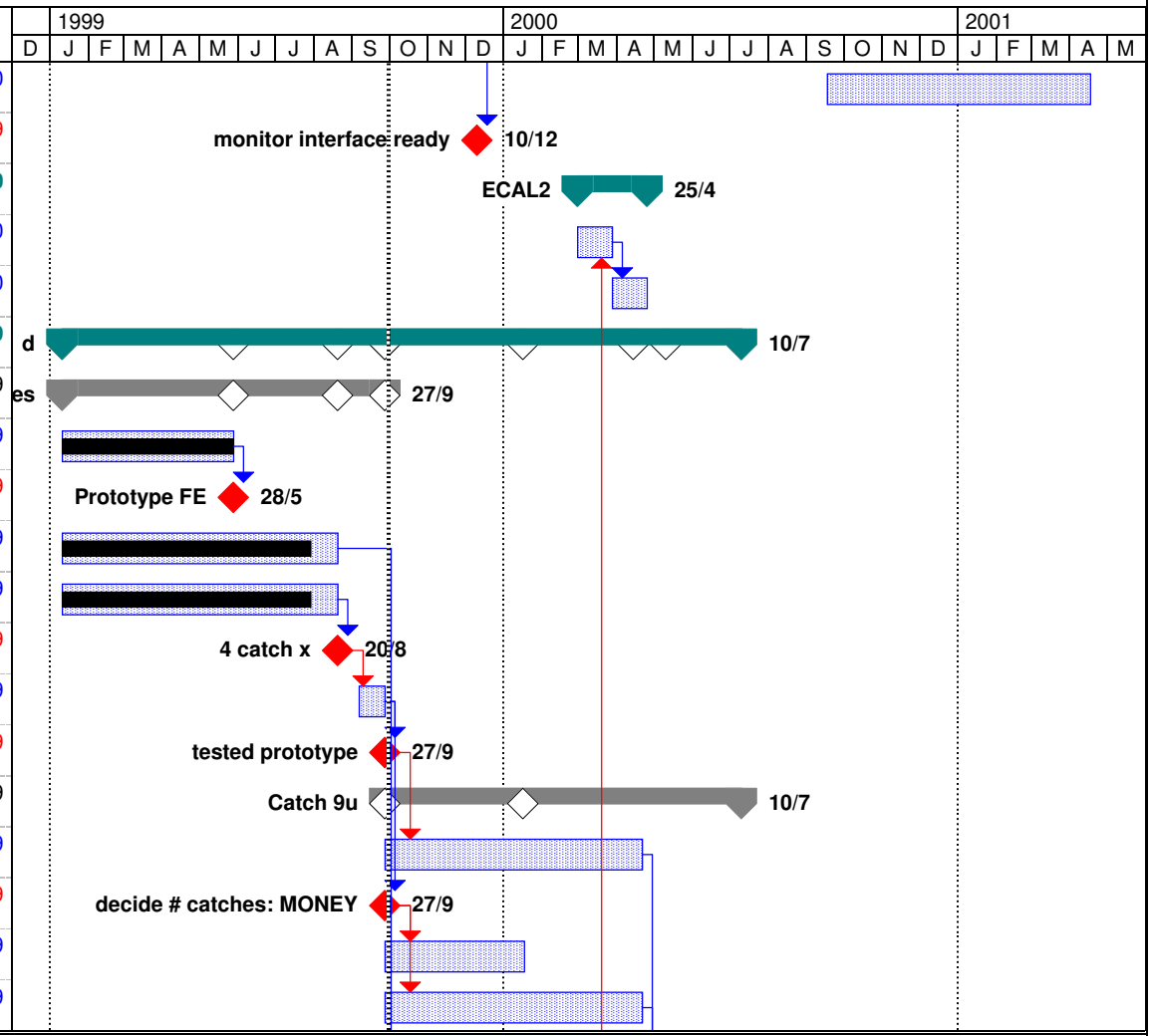
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 75 | filtering i/f | 152 days | Mon 18/9/00 |
| 76 | monitor interface ready | 0 days | Fri 10/12/99 |
| 3 | **ECAL2** | **40 days** | **Wed 1/3/00** |
| 2 | Assembly Gams 4000 | 4 wks | Wed 1/3/00 |
| 3 | Assembly lead glas | 4 wks | Wed 29/3/00 |
| 4 | **Frontend** | **376 days** | **Mon 11/1/99** |
| 1 | Prototypes | 186 days | Mon 11/1/99 |
| 2 | Prototype FE straw | 20 wks | Mon 11/1/99 |
| 3 | Prototype FE | 0 days | Fri 28/5/99 |
| 4 | Prototype TDC | 32 wks | Mon 11/1/99 |
| 5 | Catch X | 32 wks | Mon 11/1/99 |
| 6 | 4 catch x | 0 days | Fri 20/8/99 |
| 7 | test beam | 3 wks | Tue 7/9/99 |
| 8 | tested prototype | 0 days | Mon 27/9/99 |
| 9 | Catch 9u | 190 days | Mon 27/9/99 |
| 10 | design | 134 days | Tue 28/9/99 |
| 11 | decide # catches: MONEY | 0 days | Mon 27/9/99 |
| 12 | produce hotlinks | 13 wks | Tue 28/9/99 |
| 13 | chips 1 | 134 days | Tue 28/9/99 |

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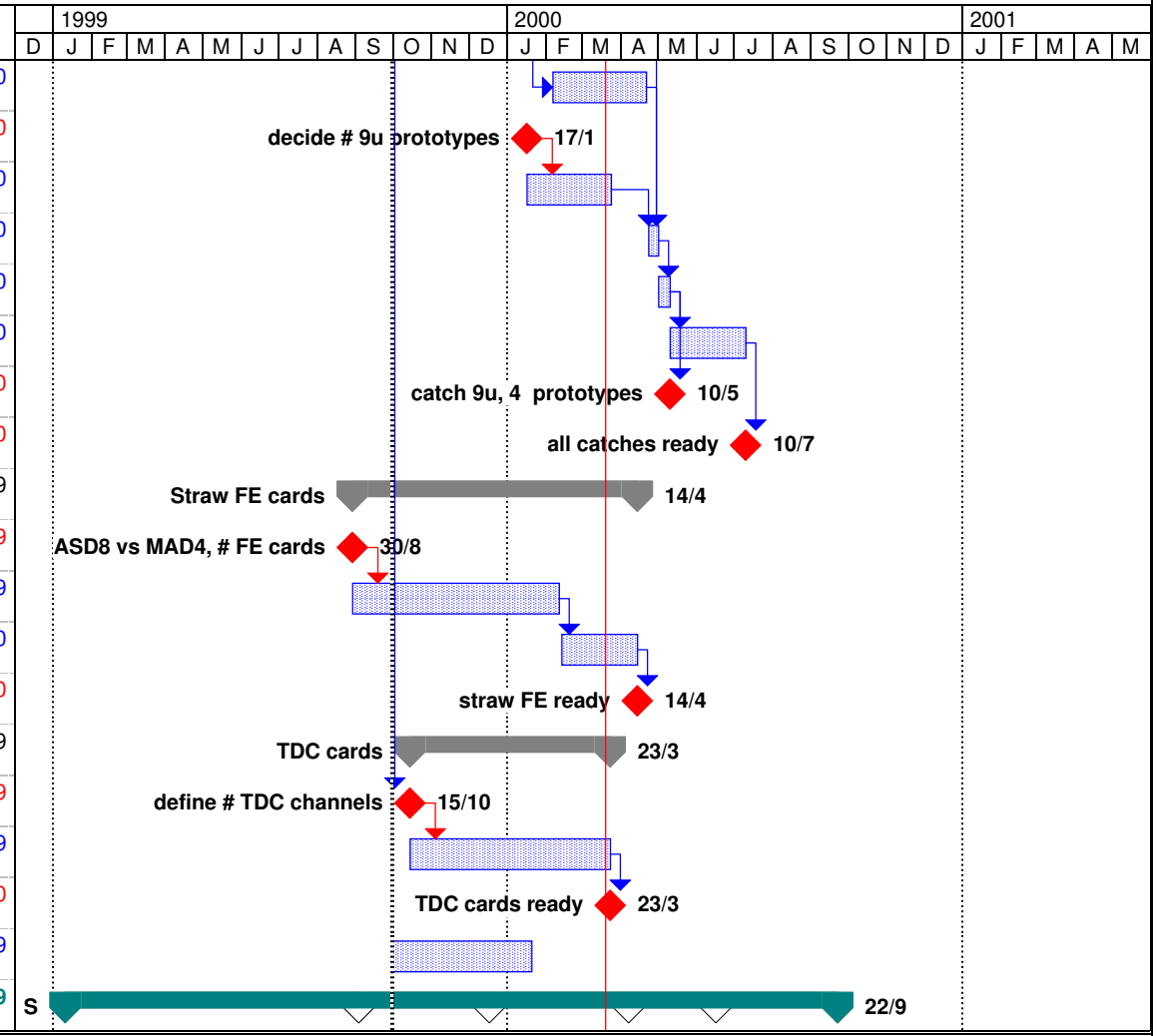
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 14 | chips 2 | 11 wks | Mon 7/2/00 |
| 15 | decide # 9u prototypes | 0 days | Mon 17/1/00 |
| 16 | PC boards | 10 wks | Mon 17/1/00 |
| 17 | put elements | 6 days | Mon 24/4/00 |
| 18 | debugging | 7 days | Tue 2/5/00 |
| 19 | production | 43 days | Thu 11/5/00 |
| 20 | catch 9u, 4 prototypes | 0 days | Wed 10/5/00 |
| 21 | all catches ready | 0 days | Mon 10/7/00 |
| 22 | Straw FE cards | 150 days | Mon 30/8/99 |
| 23 | ASD8 vs MAD4, # FE cards | 0 days | Mon 30/8/99 |
| 24 | ASD8 / MAD 4 production | 21 wks | Mon 30/8/99 |
| 25 | FE board production | 9 wks | Mon 14/2/00 |
| 26 | straw FE ready | 0 days | Fri 14/4/00 |
| 27 | TDC cards | 100 days | Fri 15/10/99 |
| 28 | define # TDC channels | 0 days | Fri 15/10/99 |
| 29 | TDC cards | 20 wks | Fri 15/10/99 |
| 30 | TDC cards ready | 0 days | Thu 23/3/00 |
| 31 | other F1 chips | 13 wks | Fri 1/10/99 |
| 5 | GEMS | 430 days | Mon 11/1/99 |

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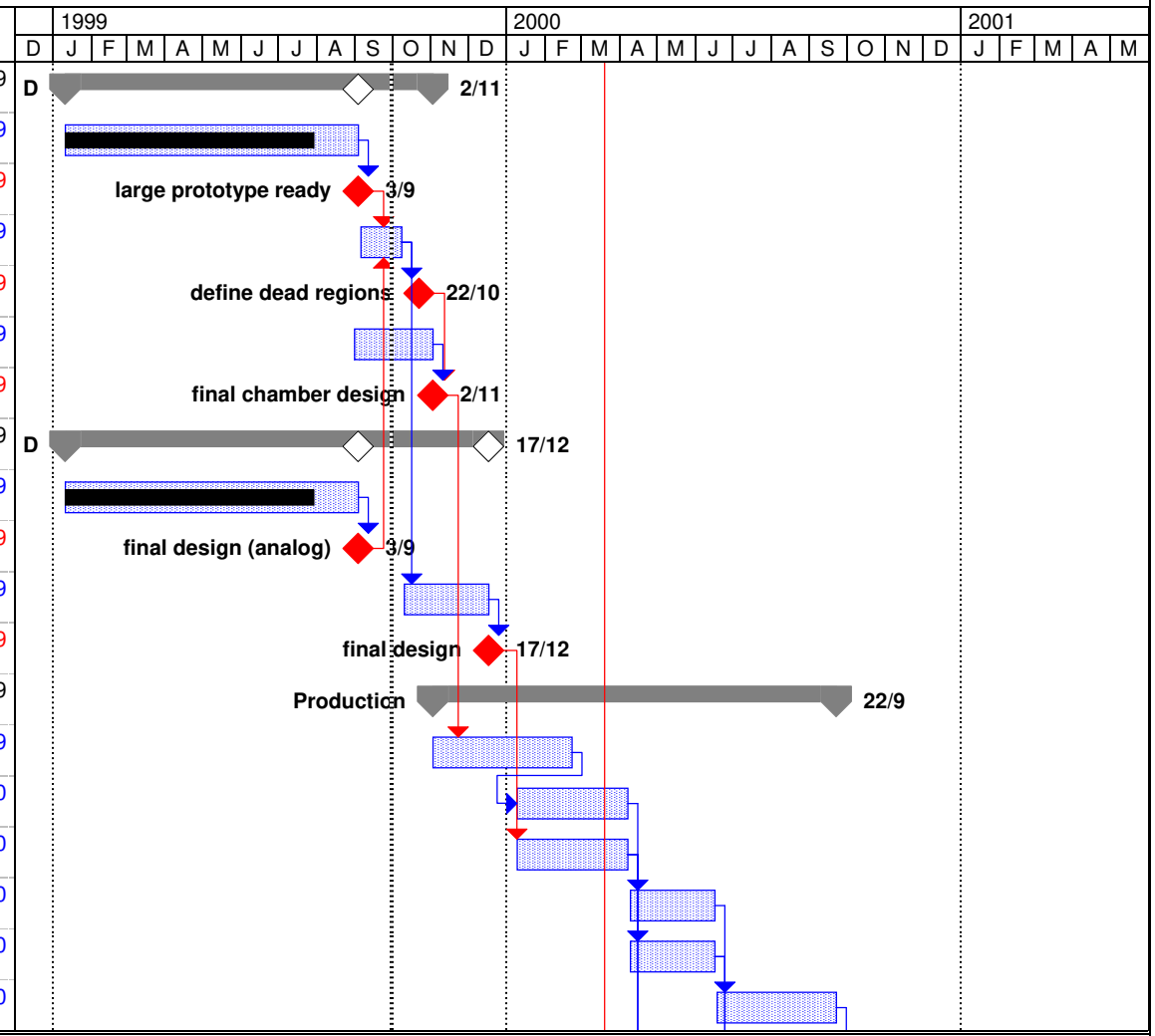
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 1 | Chamber R&D | 212 days | Mon 11/1/99 |
| 2 | prototypes | 34 wks | Mon 11/1/99 |
| 3 | large prototype ready | 0 days | Fri 3/9/99 |
| 4 | beam tests M2 | 5 wks | Mon 6/9/99 |
| 5 | define dead regions | 0 days | Fri 22/10/99 |
| 6 | design services | 9 wks | Wed 1/9/99 |
| 7 | final chamber design | 0 days | Tue 2/11/99 |
| 8 | Electronics R&D | 245 days | Mon 11/1/99 |
| 9 | prototype | 34 wks | Mon 11/1/99 |
| 10 | final design (analog) | 0 days | Fri 3/9/99 |
| 11 | design (digital) | 10 wks | Mon 11/10/99 |
| 12 | final design | 0 days | Fri 17/12/99 |
| 13 | Production | 218 days | Wed 3/11/99 |
| 14 | produce Gems, order materia | 13 wks | Wed 3/11/99 |
| 15 | assembly of 2 stations | 13 wks | Mon 10/1/00 |
| 16 | electronics 2 stations | 13 wks | Mon 10/1/00 |
| 17 | assembly of 2 stations | 10 wks | Mon 10/4/00 |
| 18 | electronics 2 stations | 10 wks | Mon 10/4/00 |
| 19 | procution 6 stations | 14 wks | Mon 19/6/00 |

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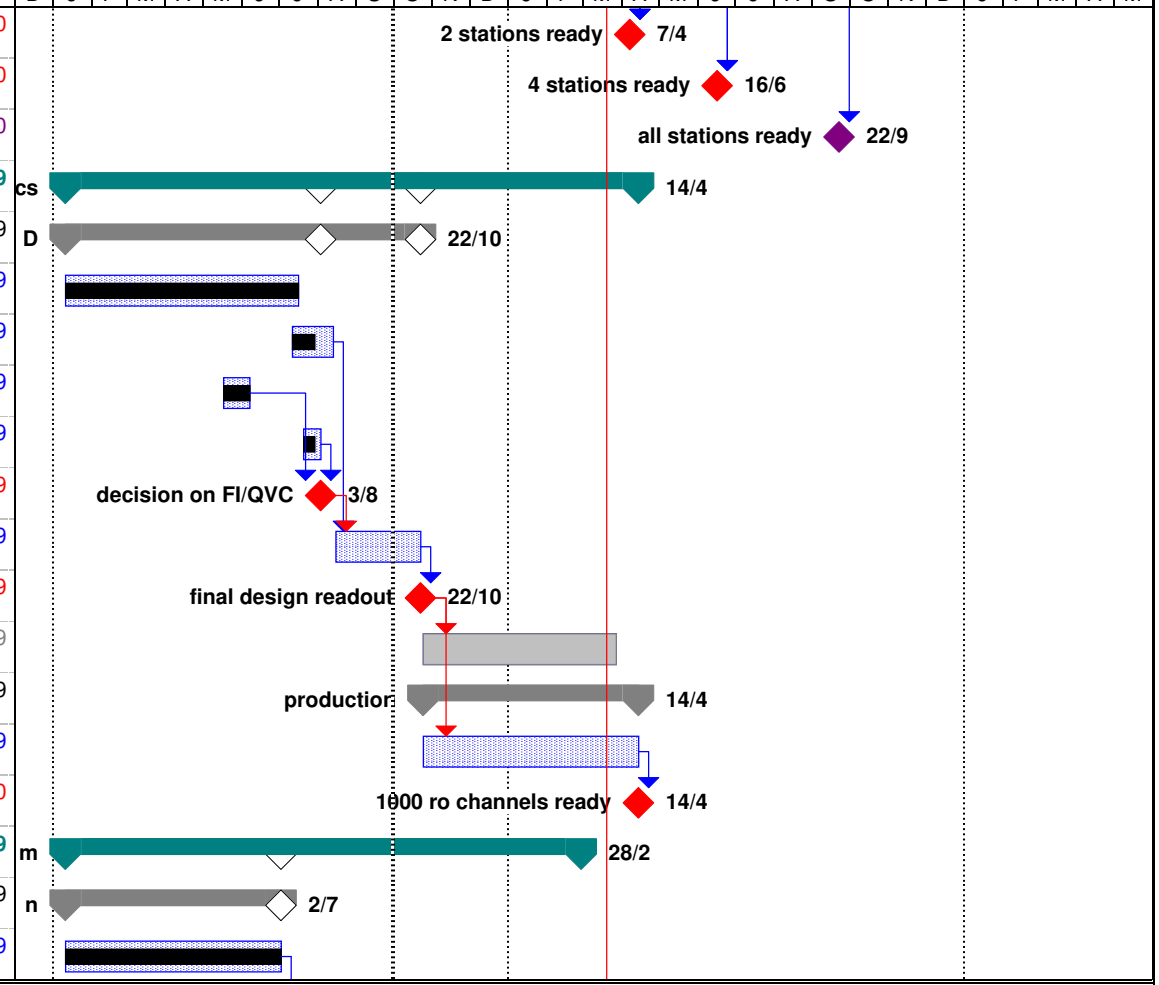
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 20 | 2 stations ready | 0 days | Fri 7/4/00 |
| 21 | 4 stations ready | 0 days | Fri 16/6/00 |
| 22 | all stations ready | 0 days | Fri 22/9/00 |
| 6 | **HECAL electronics** | **330 days** | **Mon 11/1/99** |
| 1 | R & D | 205 days | Mon 11/1/99 |
| 2 | prototypes | 27 wks | Mon 11/1/99 |
| 3 | design ADC | 5 wks | Mon 12/7/99 |
| 4 | test of FI | 3 wks | Tue 18/5/99 |
| 5 | test of QVC | 2 wks | Wed 21/7/99 |
| 6 | decision on FI/QVC | 0 days | Tue 3/8/99 |
| 7 | Read-out prototype | 10 wks | Mon 16/8/99 |
| 8 | final design readout | 0 days | Fri 22/10/99 |
| 9 | production | 20 wks | Mon 25/10/99 |
| 10 | production | 125 days | Mon 25/10/99 |
| 11 | Production of 1000 ch | 25 wks | Mon 25/10/99 |
| 12 | 1000 ro channels ready | 0 days | Fri 14/4/00 |
| 7 | **HECAL1 platform** | **285 days** | **Mon 11/1/99** |
| 1 | Design | 125 days | Mon 11/1/99 |
| 2 | Design | 25 wks | Mon 11/1/99 |

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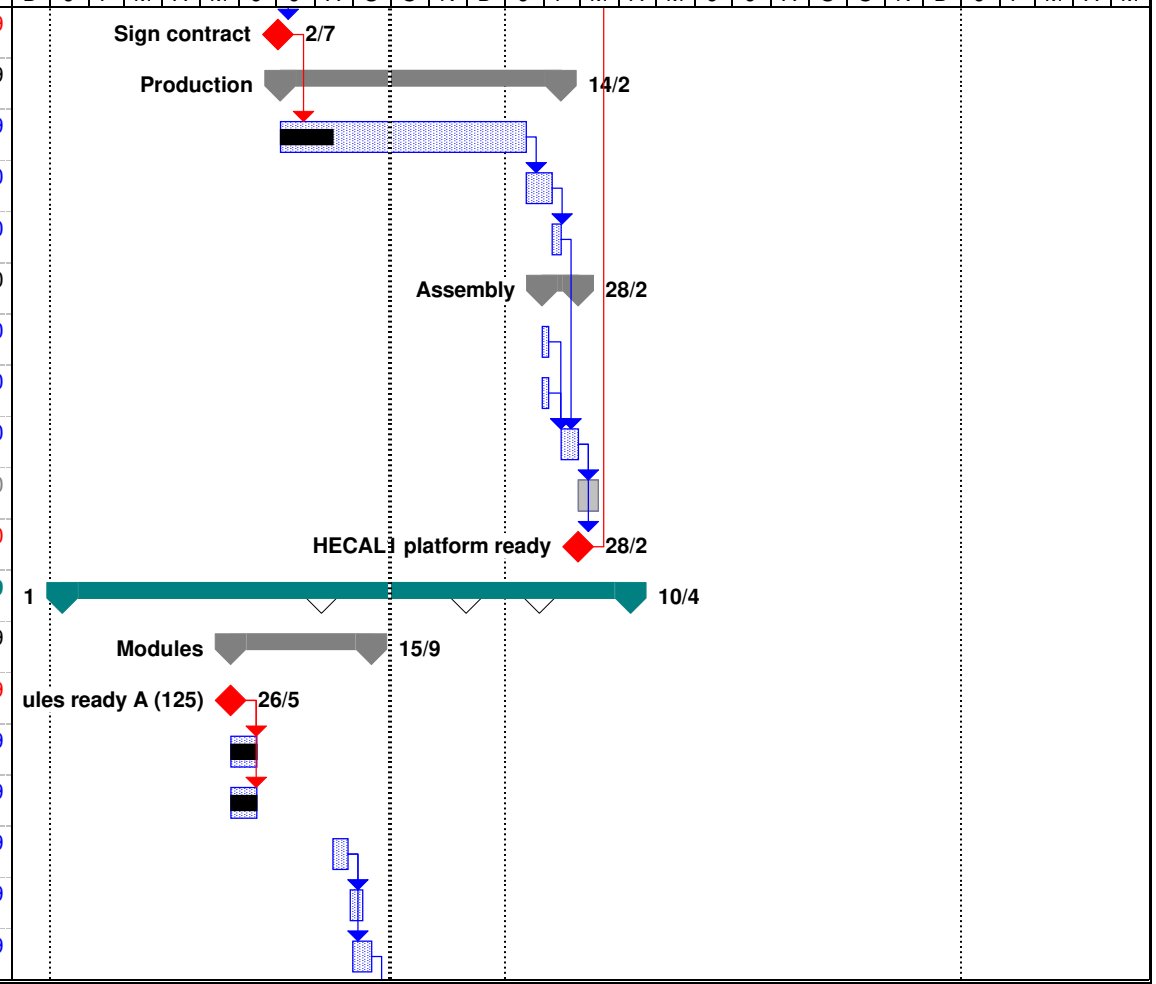
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 3 | Sign contract | 0 days | Fri 2/7/99 |
| 4 | Production | 150 days | Mon 5/7/99 |
| 5 | production | 26 wks | Mon 5/7/99 |
| 6 | pre assembly | 3 wks | Tue 18/1/00 |
| 7 | delivery | 1 wk | Tue 8/2/00 |
| 8 | Assembly | 21 days | Mon 31/1/00 |
| 9 | monorail | 1 wk | Mon 31/1/00 |
| 10 | place rails | 1 wk | Mon 31/1/00 |
| 11 | assembly | 2 wks | Tue 15/2/00 |
| 12 | chariot and frame | 12 days | Tue 29/2/00 |
| 13 | HECAL1 platform ready | 0 days | Mon 28/2/00 |
| 8 | HCAL1 | 315 days | Mon 11/1/99 |
| 1 | Modules | 81 days | Wed 26/5/99 |
| 2 | modules ready A (125) | 0 days | Wed 26/5/99 |
| 3 | refurbish B | 15 days | Wed 26/5/99 |
| 4 | calibrate B (150) | 15 days | Wed 26/5/99 |
| 5 | refurbish C (121) | 2 wks | Mon 16/8/99 |
| 6 | refurbish D (84) | 8 days | Mon 30/8/99 |
| 7 | calibrate C+D | 11 days | Wed 1/9/99 |

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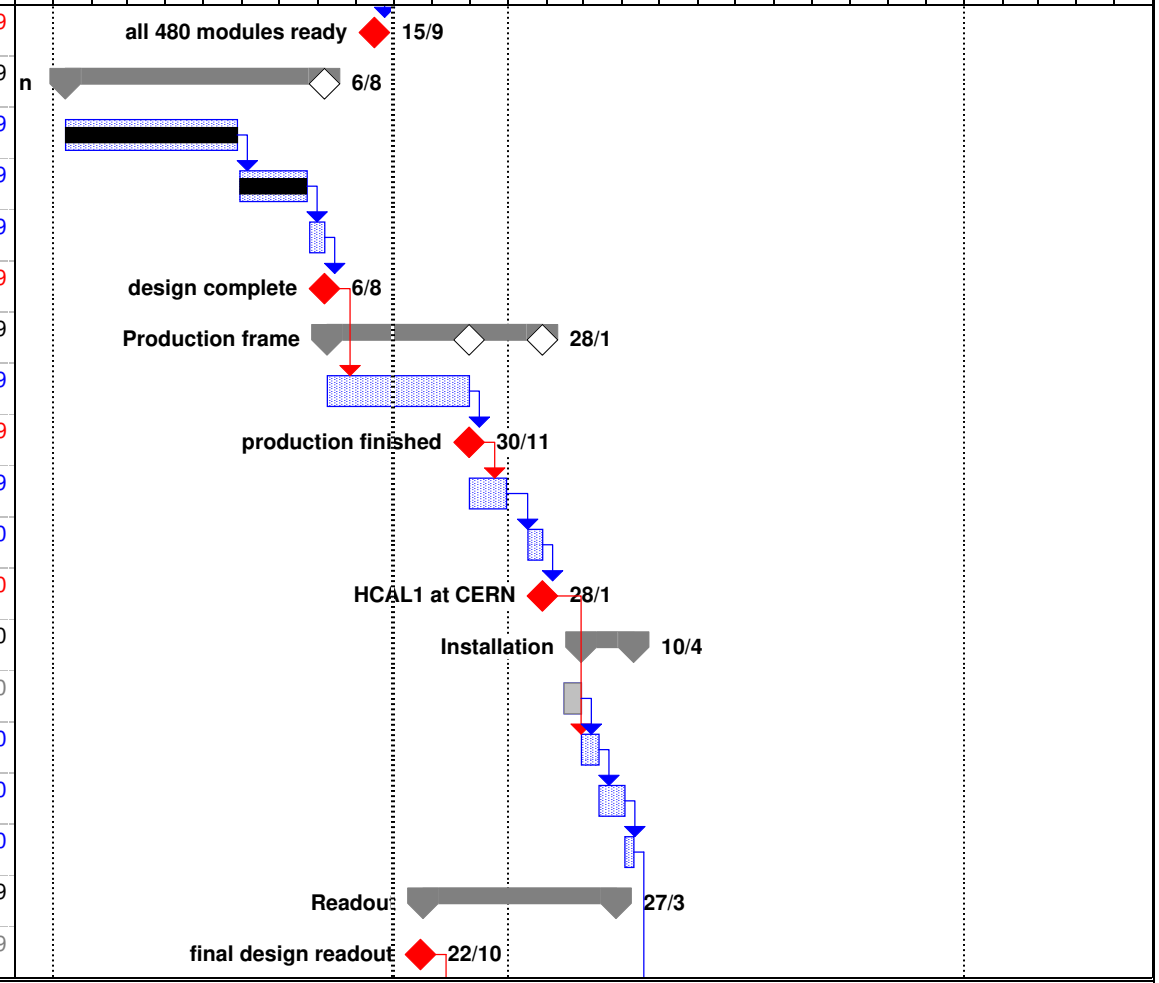
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 8 | all 480 modules ready | 0 days | Wed 15/9/99 |
| 9 | HCAL1 Design | 150 days | Mon 11/1/99 |
| 10 | design phase 1 | 20 wks | Mon 11/1/99 |
| 11 | design phase 2 | 8 wks | Mon 31/5/99 |
| 12 | approval of design | 2 wks | Mon 26/7/99 |
| 13 | design complete | 0 days | Fri 6/8/99 |
| 14 | Production frame | 114 days | Mon 9/8/99 |
| 15 | production | 82 days | Mon 9/8/99 |
| 16 | production finished | 0 days | Tue 30/11/99 |
| 17 | preassembly | 22 days | Wed 1/12/99 |
| 18 | transport to CERN | 2 wks | Mon 17/1/00 |
| 19 | HCAL1 at CERN | 0 days | Fri 28/1/00 |
| 20 | Installation | 30 days | Tue 29/2/00 |
| 21 | assembly | 2 wks | Tue 15/2/00 |
| 22 | chariot and frame | 2 wks | Tue 29/2/00 |
| 23 | modules | 3 wks | Tue 14/3/00 |
| 24 | cables | 1 wk | Tue 4/4/00 |
| 25 | Readout | 100 days | Mon 25/10/99 |
| 26 | final design readout | 0 days | Fri 22/10/99 |

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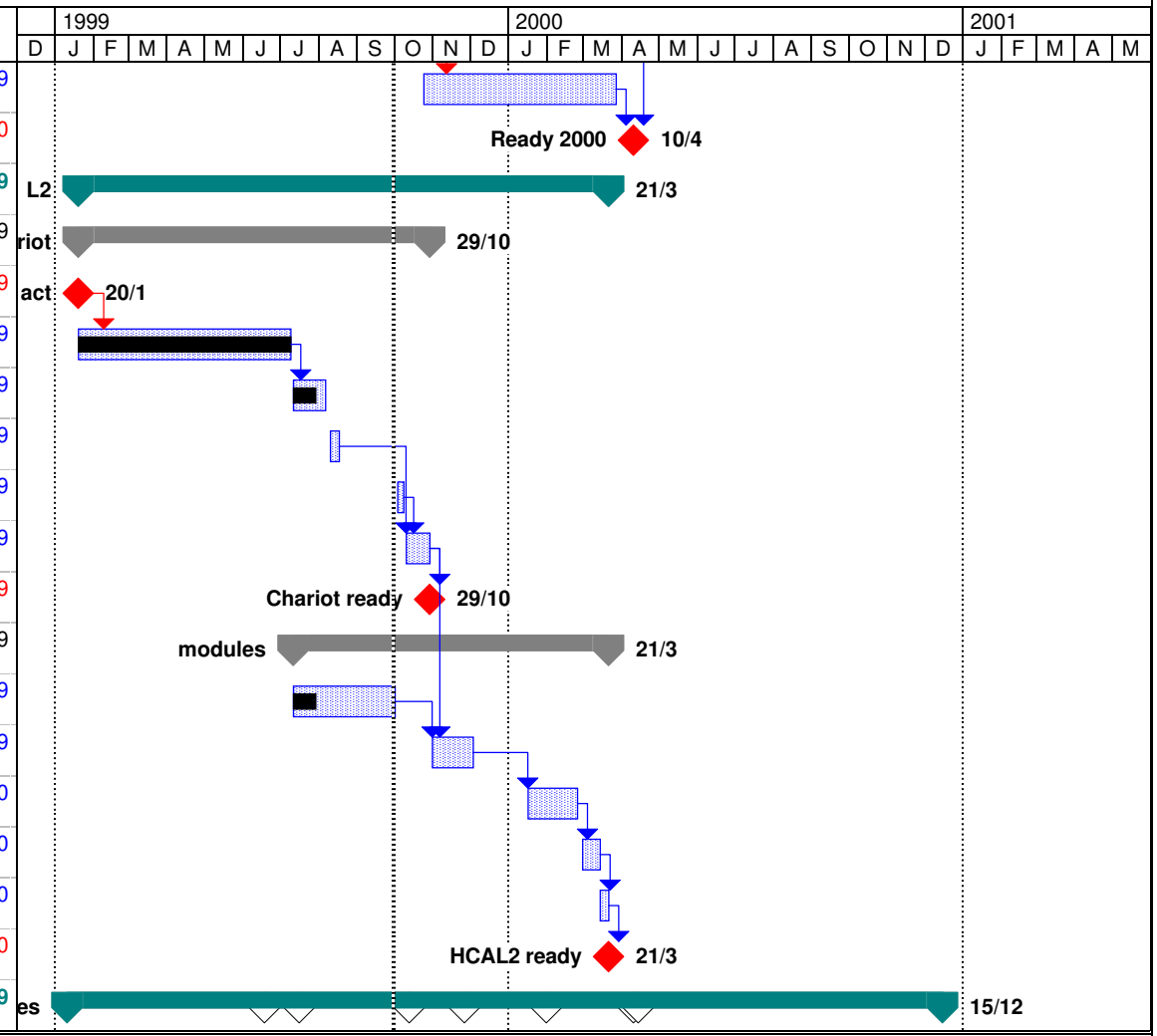
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 27 | production | 20 wks | Mon 25/10/99 |
| 28 | Ready 2000 | 0 days | Mon 10/4/00 |
| 9 | **HCAL2** | **294 days** | **Wed 20/1/99** |
| 1 | Chariot | 203 days | Wed 20/1/99 |
| 2 | sign contract | 0 days | Wed 20/1/99 |
| 3 | Production | 24.6 wks | Wed 20/1/99 |
| 4 | pre assembly | 4 wks | Mon 12/7/99 |
| 5 | Place rails | 1 wk | Wed 11/8/99 |
| 6 | Transport platform | 1 wk | Mon 4/10/99 |
| 7 | Assemble at CERN | 3 wks | Mon 11/10/99 |
| 8 | Chariot ready | 0 days | Fri 29/10/99 |
| 9 | modules | 171 days | Mon 12/7/99 |
| 10 | scintillator production | 12 wks | Mon 12/7/99 |
| 11 | refurbish modules at CERN | 5 wks | Mon 1/11/99 |
| 12 | refurbish modules at CERN | 6 wks | Mon 17/1/00 |
| 13 | pack modules | 2 wks | Wed 1/3/00 |
| 14 | cabling | 1 wk | Wed 15/3/00 |
| 15 | HCAL2 ready | 0 days | Tue 21/3/00 |
| 10 | **Hodoscopes** | **505 days** | **Mon 11/1/99** |

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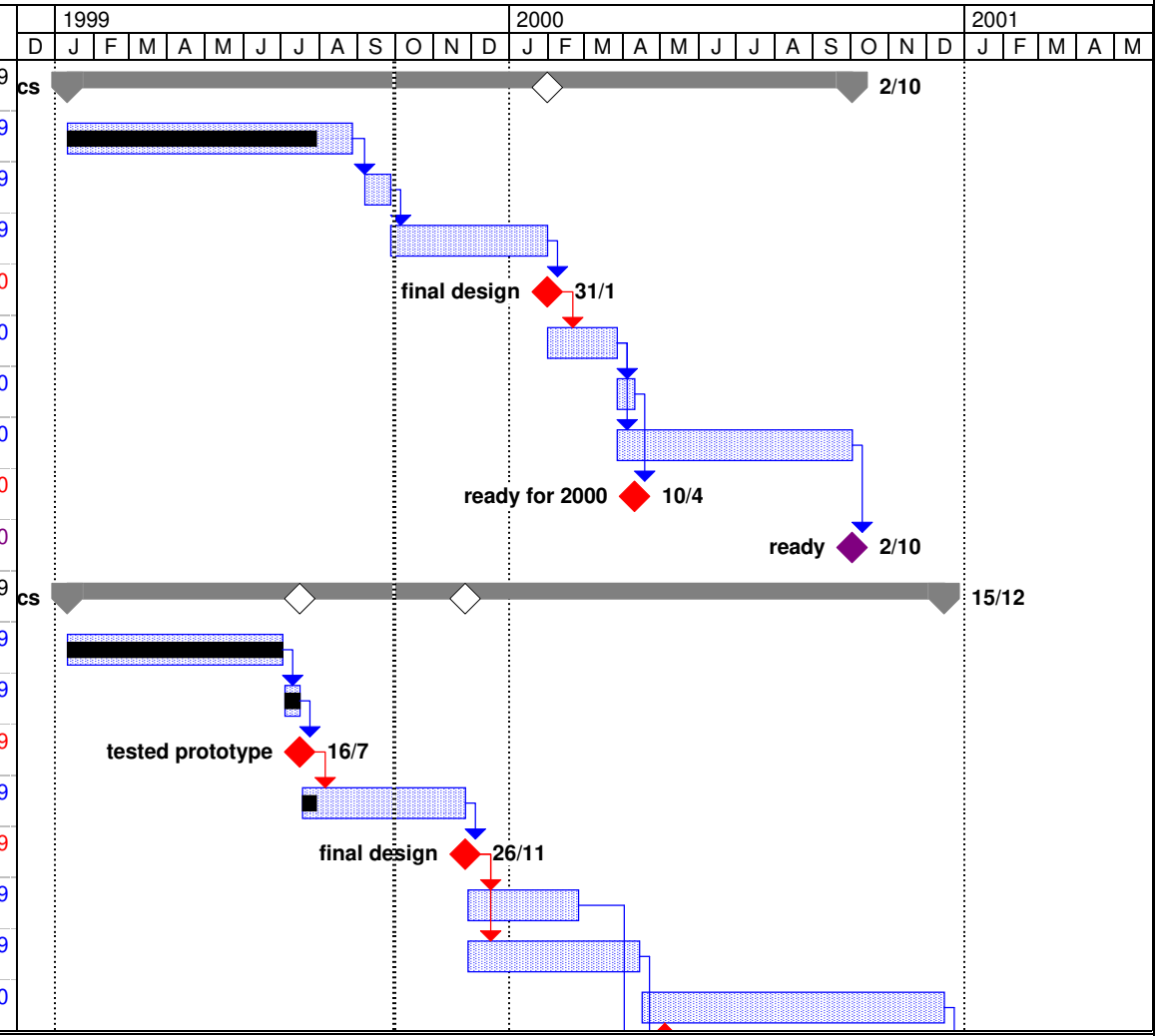
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 1 | trigger electronics | 451 days | Mon 11/1/99 |
| 2 | design phase 1 | 33 wks | Mon 11/1/99 |
| 3 | beam test | 3 wks | Tue 7/9/99 |
| 4 | design phase 2 | 18 wks | Tue 28/9/99 |
| 5 | final design | 0 days | Mon 31/1/00 |
| 6 | production 1 | 8 wks | Tue 1/2/00 |
| 7 | installation | 2 wks | Tue 28/3/00 |
| 8 | production 2 | 27 wks | Tue 28/3/00 |
| 9 | ready for 2000 | 0 days | Mon 10/4/00 |
| 10 | ready | 0 days | Mon 2/10/00 |
| 11 | Summation electronics | 505 days | Mon 11/1/99 |
| 12 | Hcal Summation first design | 25 wks | Mon 11/1/99 |
| 13 | Beam test PS | 2 wks | Mon 5/7/99 |
| 14 | tested prototype | 0 days | Fri 16/7/99 |
| 15 | Final design stage | 19 wks | Mon 19/7/99 |
| 16 | final design | 0 days | Fri 26/11/99 |
| 17 | Construction | 13 wks | Mon 29/11/99 |
| 18 | discriminators 1 | 20 wks | Mon 29/11/99 |
| 19 | all electronics installed | 35 wks | Mon 17/4/00 |

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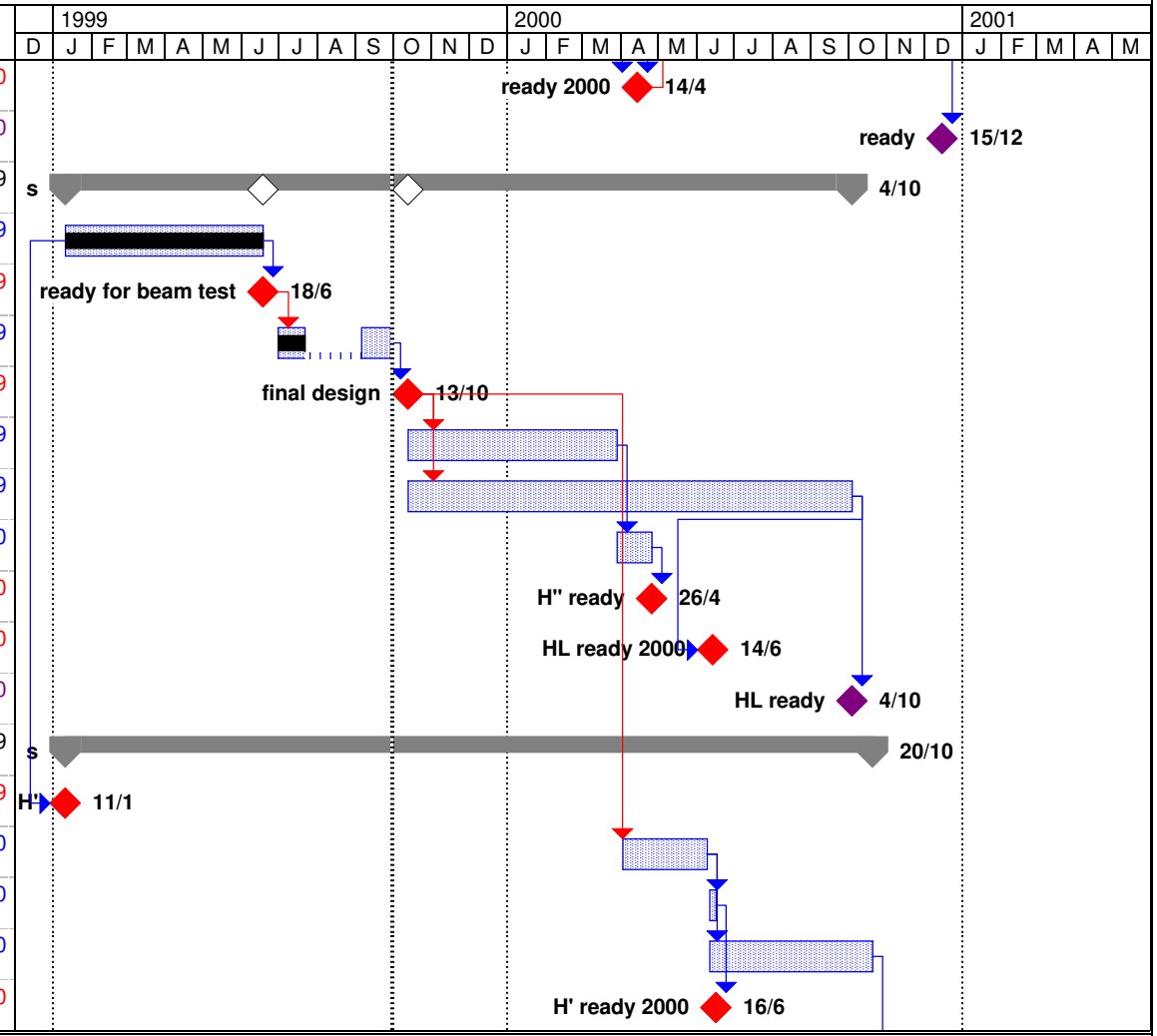
| 20 | ready 2000 | 0 days | Fri 14/4/00 |
| 21 | ready | 0 days | Fri 15/12/00 |
| 22 | Double prime hodos | 452.5 days | Mon 11/1/99 |
| 23 | Prototype design & contructic | 23 wks | Mon 11/1/99 |
| 24 | ready for beam test | 0 days | Fri 18/6/99 |
| 25 | Beam tests | 6.6 wks | Thu 1/7/99 |
| 26 | final design | 0 days | Wed 13/10/99 |
| 27 | production H'' | 24 wks | Wed 13/10/99 |
| 28 | production HL | 51 wks | Wed 13/10/99 |
| 29 | installation | 4 wks | Wed 29/3/00 |
| 30 | H'' ready | 0 days | Wed 26/4/00 |
| 31 | HL ready 2000 | 0 days | Wed 14/6/00 |
| 32 | HL ready | 0 days | Wed 4/10/00 |
| 33 | prime hodos | 465 days | Mon 11/1/99 |
| 34 | start H' | 0 days | Mon 11/1/99 |
| 35 | production 1 | 10 wks | Mon 3/4/00 |
| 36 | installation | 1 wk | Mon 12/6/00 |
| 37 | production 2 | 19 wks | Mon 12/6/00 |
| 38 | H' ready 2000 | 0 days | Fri 16/6/00 |

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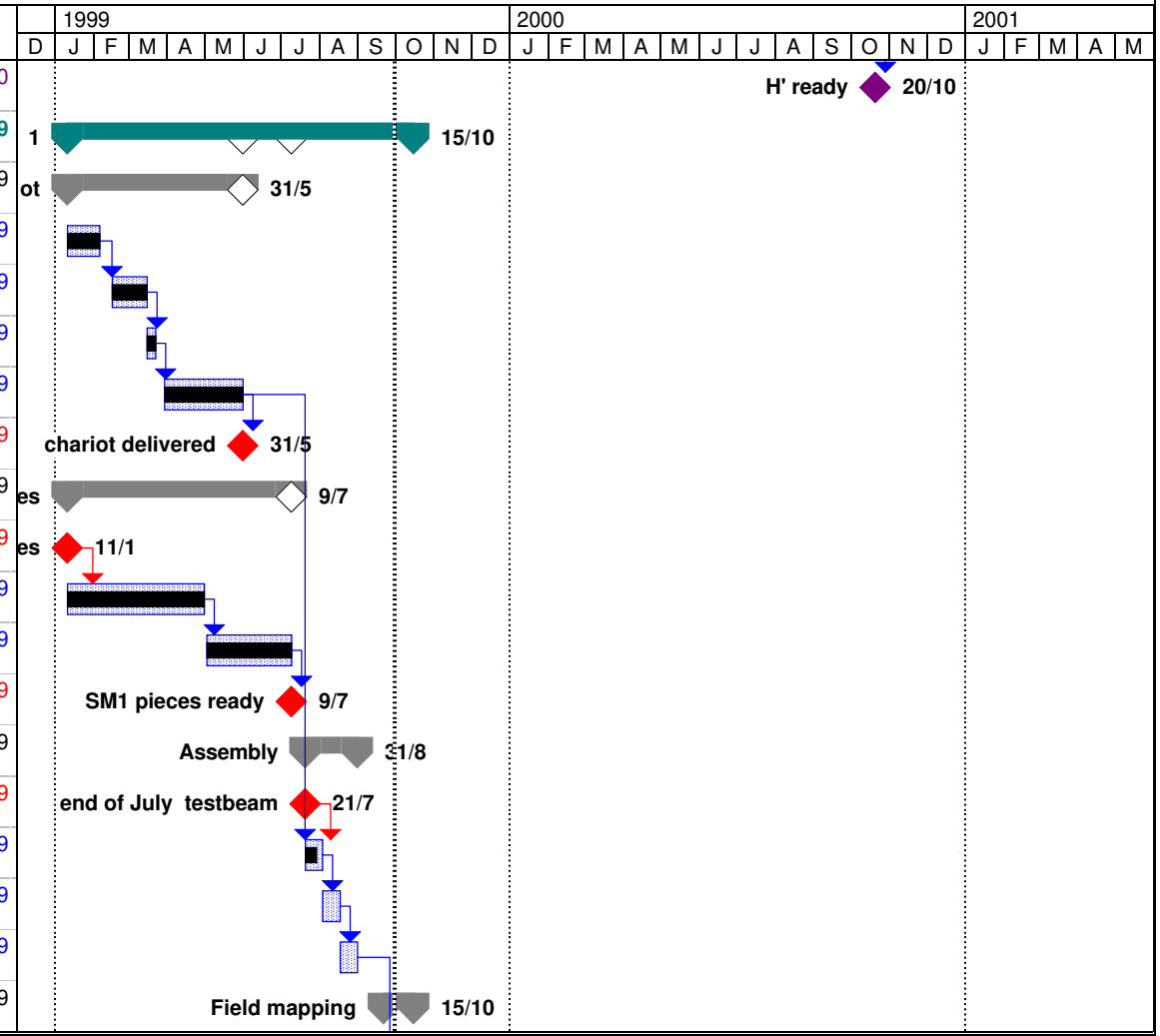
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 39 | H' ready | 0 days | Fri 20/10/00 |
| 11 | **Magnet SM1** | **200 days** | **Mon 11/1/99** |
| 1 | chariot | 101 days | Mon 11/1/99 |
| 2 | SM1 design | 4 wks | Mon 11/1/99 |
| 3 | SM1 tender | 4 wks | Tue 16/2/99 |
| 4 | SM1 order chariot | 1 wk | Tue 16/3/99 |
| 5 | SM1 chariot production | 9 wks | Tue 30/3/99 |
| 6 | chariot delivered | 0 days | Mon 31/5/99 |
| 7 | yoke and pole pieces | 130 days | Mon 11/1/99 |
| 8 | SM1 order pieces | 0 days | Mon 11/1/99 |
| 9 | SM1 production | 16 wks | Mon 11/1/99 |
| 10 | SM1 machining | 50 days | Mon 3/5/99 |
| 11 | SM1 pieces ready | 0 days | Fri 9/7/99 |
| 12 | Assembly | 30 days | Wed 21/7/99 |
| 13 | end of July testbeam | 0 days | Wed 21/7/99 |
| 14 | SM1 chariot assembly | 2 wks | Wed 21/7/99 |
| 15 | assembly | 2 wks | Wed 4/8/99 |
| 16 | tests | 2 wks | Wed 18/8/99 |
| 17 | Field mapping | 18 days | Wed 22/9/99 |




Project: Compass Spectrometer
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Co-ordinator: Gerhard Mallot /CERN

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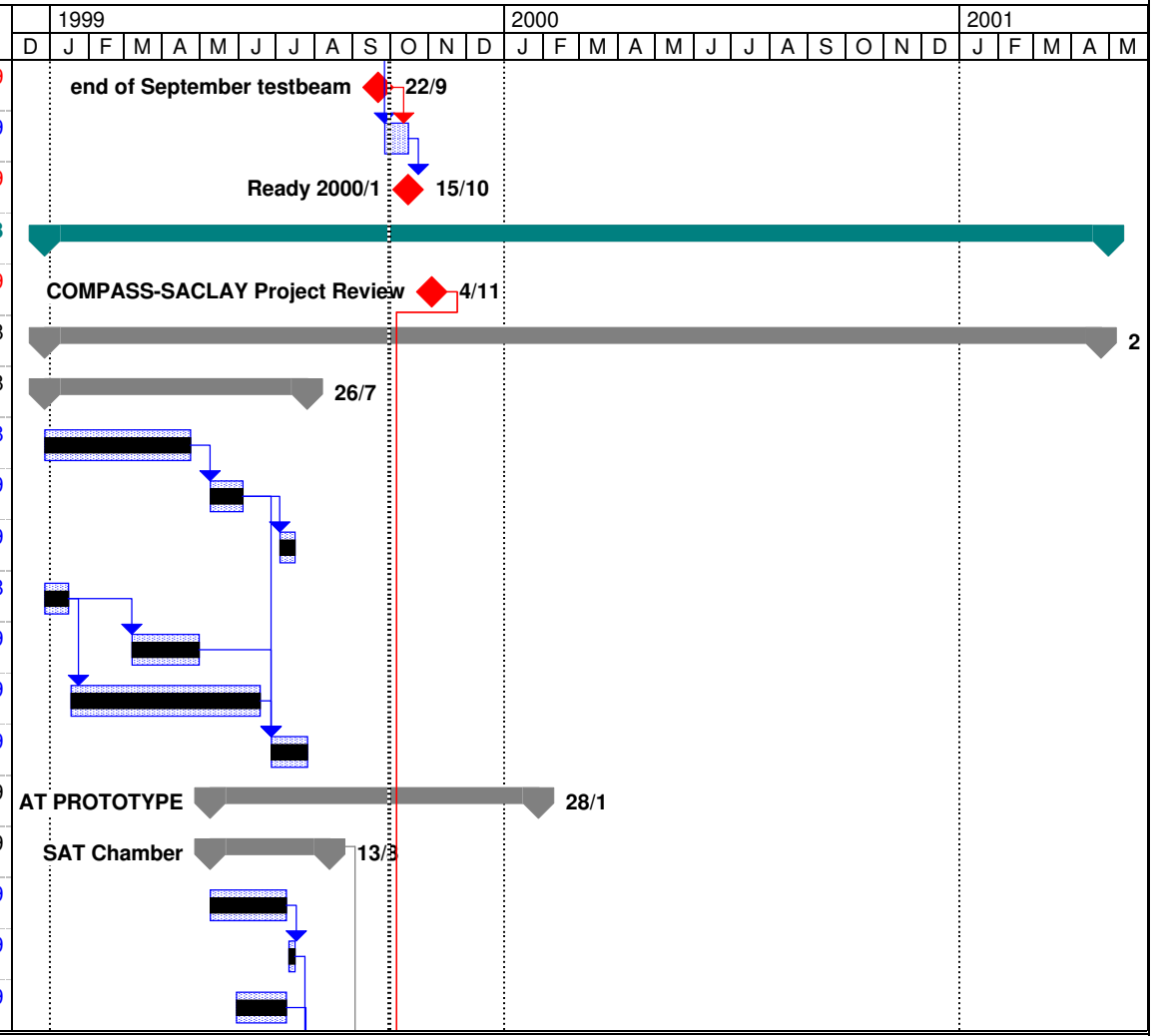
# Compass Spectrometer / CERN

Thu 30/9/99

| ID | Task Name | Duration | Start |
|---|---|---|---|
| 18 | end of September testbeam | 0 days | Wed 22/9/99 |
| 19 | measurements | 3 wks | Mon 27/9/99 |
| 20 | Ready 2000/1 | 0 days | Fri 15/10/99 |
| 12 | **Micromegas & Drift** | **611 days** | **Mon 28/12/98** |
| 1 | COMPASS-SACLAY Project Revi | 0 days | Thu 4/11/99 |
| 2 | MICROMEGAS SMALL ANGLE T | 607 days | Mon 28/12/98 |
| 3 | LARGE SIZE PROTOTYPES | 151 days | Mon 28/12/98 |
| 4 | R&D Micromegas chaml | 17 wks | Mon 28/12/98 |
| 5 | LC3 chamber | 4 wks | Mon 10/5/99 |
| 6 | LC4 chamber | 2 wks | Mon 5/7/99 |
| 7 | FE board SFE16 v.10 (1 | 3 wks | Mon 28/12/98 |
| 8 | FE board SFE16 v.11 (6 | 8 wks | Mon 8/3/99 |
| 9 | Lab tests | 22 wks | Mon 18/1/99 |
| 10 | T9 Tests | 4.2 wks | Mon 28/6/99 |
| 11 | SAT PROTOTYPE | 190 days | Mon 10/5/99 |
| 12 | SAT Chamber | 70 days | Mon 10/5/99 |
| 13 | Printed Board Micrc | 9 wks | Mon 10/5/99 |
| 14 | Honeycomb & struc | 1 wk | Mon 12/7/99 |
| 15 | Printed Board Bus | 6 wks | Mon 31/5/99 |

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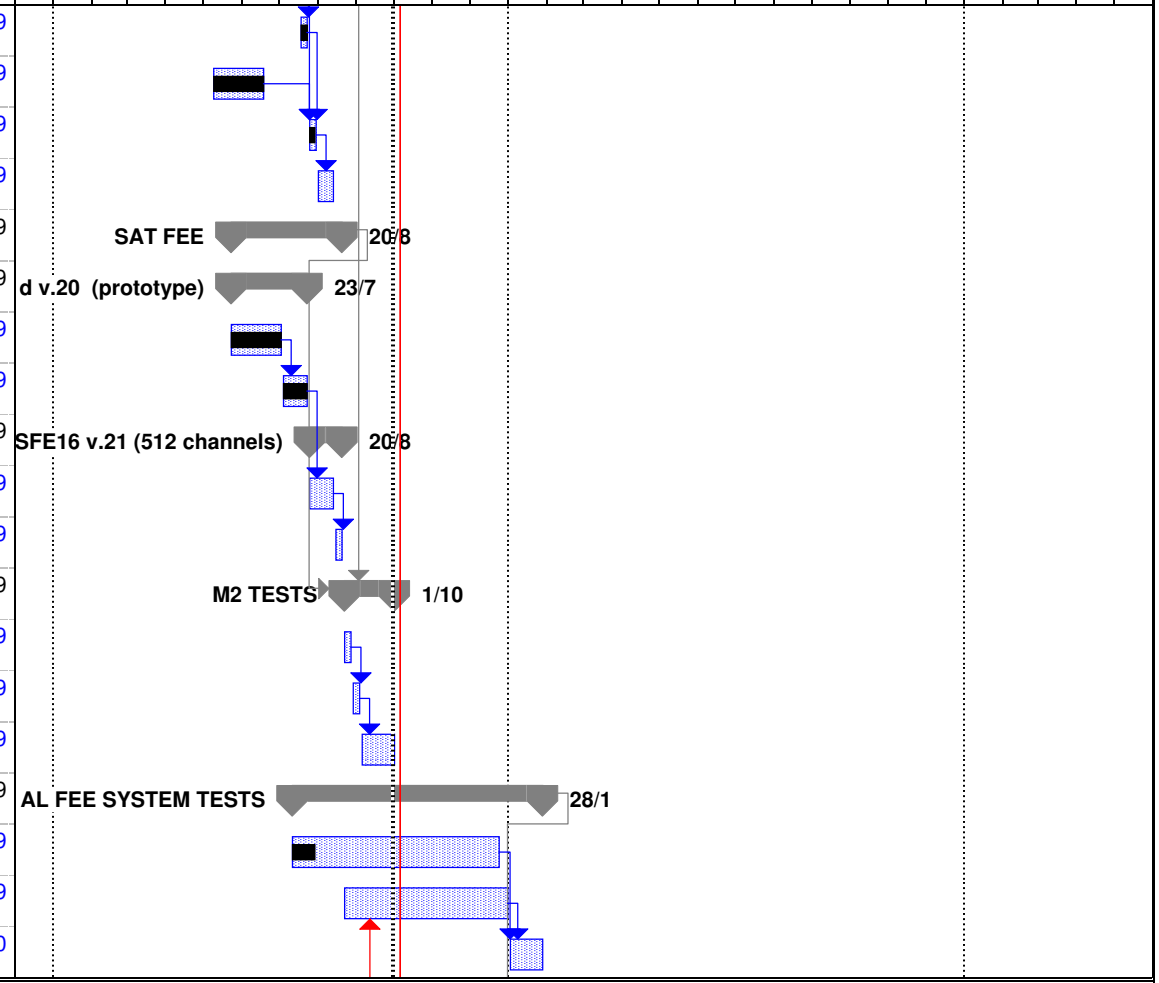
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 16 | Mecanical integratic | 1 wk | Mon 19/7/99 |
| 17 | CMS components p | 6 wks | Mon 10/5/99 |
| 18 | CMS components c | 1 wk | Mon 26/7/99 |
| 19 | Lab tests | 2 wks | Mon 2/8/99 |
| 20 | SAT FEE | 65 days | Mon 24/5/99 |
| 21 | SFE16 board v.20 | 45 days | Mon 24/5/99 |
| 22 | Fabrication | 6 wks | Mon 24/5/99 |
| 23 | Lab tests | 3 wks | Mon 5/7/99 |
| 24 | FE board SFE16 v.: | 20 days | Mon 26/7/99 |
| 25 | Fabrication | 3 wks | Mon 26/7/99 |
| 26 | Lab Tests | 1 wk | Mon 16/8/99 |
| 27 | M2 TESTS | 30 days | Mon 23/8/99 |
| 28 | Final integration | 1 wk | Mon 23/8/99 |
| 29 | Lab Tests | 1 wk | Mon 30/8/99 |
| 30 | M2 (SPS) septembe | 4 wks | Mon 6/9/99 |
| 31 | GLOBAL FEE SYSTEM | 145 days | Mon 12/7/99 |
| 32 | Tests Catch+F1 boa | 24 wks | Mon 12/7/99 |
| 33 | Threshold control b | 19 wks | Mon 23/8/99 |
| 34 | Tests FEE system | 4 wks | Mon 3/1/00 |

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# Compass Spectrometer / CERN

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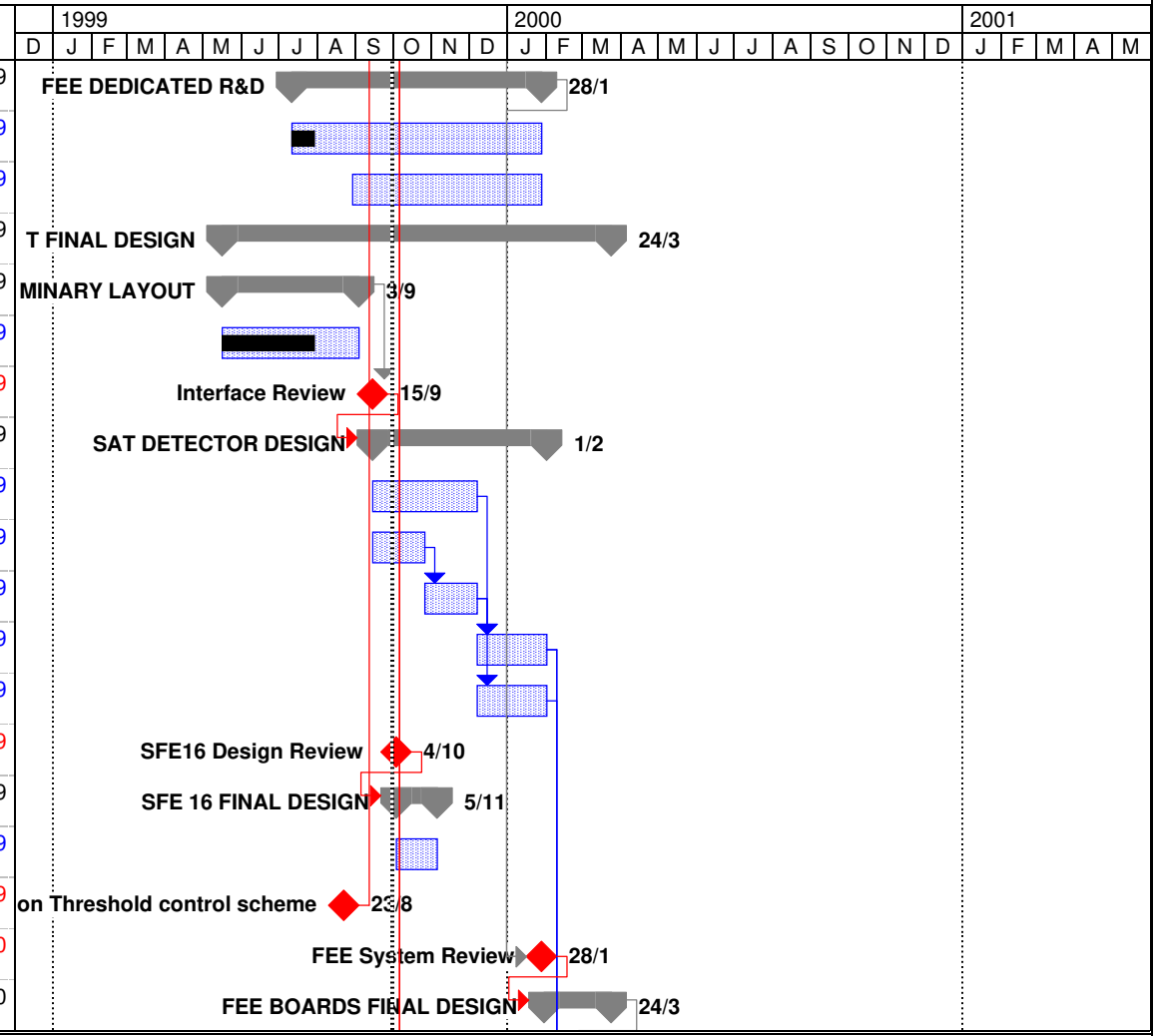
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 35 | FEE DEDICATED R&D | 145 days | Mon 12/7/99 |
| 36 | R&D lvds link | 29 wks | Mon 12/7/99 |
| 37 | R&D chip layout | 22 wks | Mon 30/8/99 |
| 38 | SAT FINAL DESIGN | 225 days | Mon 17/5/99 |
| 39 | PRELIMINARY LAYOUT | 80 days | Mon 17/5/99 |
| 40 | Preliminary Layout | 16 wks | Mon 17/5/99 |
| 41 | Interface Review | 0 days | Wed 15/9/99 |
| 42 | SAT DETECTOR DESIC | 100 days | Wed 15/9/99 |
| 43 | R&D Micromegas c | 12 wks | Wed 15/9/99 |
| 44 | Detector design | 6 wks | Wed 15/9/99 |
| 45 | Structure design | 6 wks | Wed 27/10/99 |
| 46 | Detector & Structur | 8 wks | Wed 8/12/99 |
| 47 | Micromegas Printec | 8 wks | Wed 8/12/99 |
| 48 | SFE16 Design Review | 0 days | Mon 4/10/99 |
| 49 | SFE 16 FINAL DESIGN | 25 days | Mon 4/10/99 |
| 50 | SFE16 Chip final de | 5 wks | Mon 4/10/99 |
| 51 | Decision on Threshold c | 0 days | Mon 23/8/99 |
| 52 | FEE System Review | 0 days | Fri 28/1/00 |
| 53 | FEE BOARDS FINAL DI | 40 days | Mon 31/1/00 |

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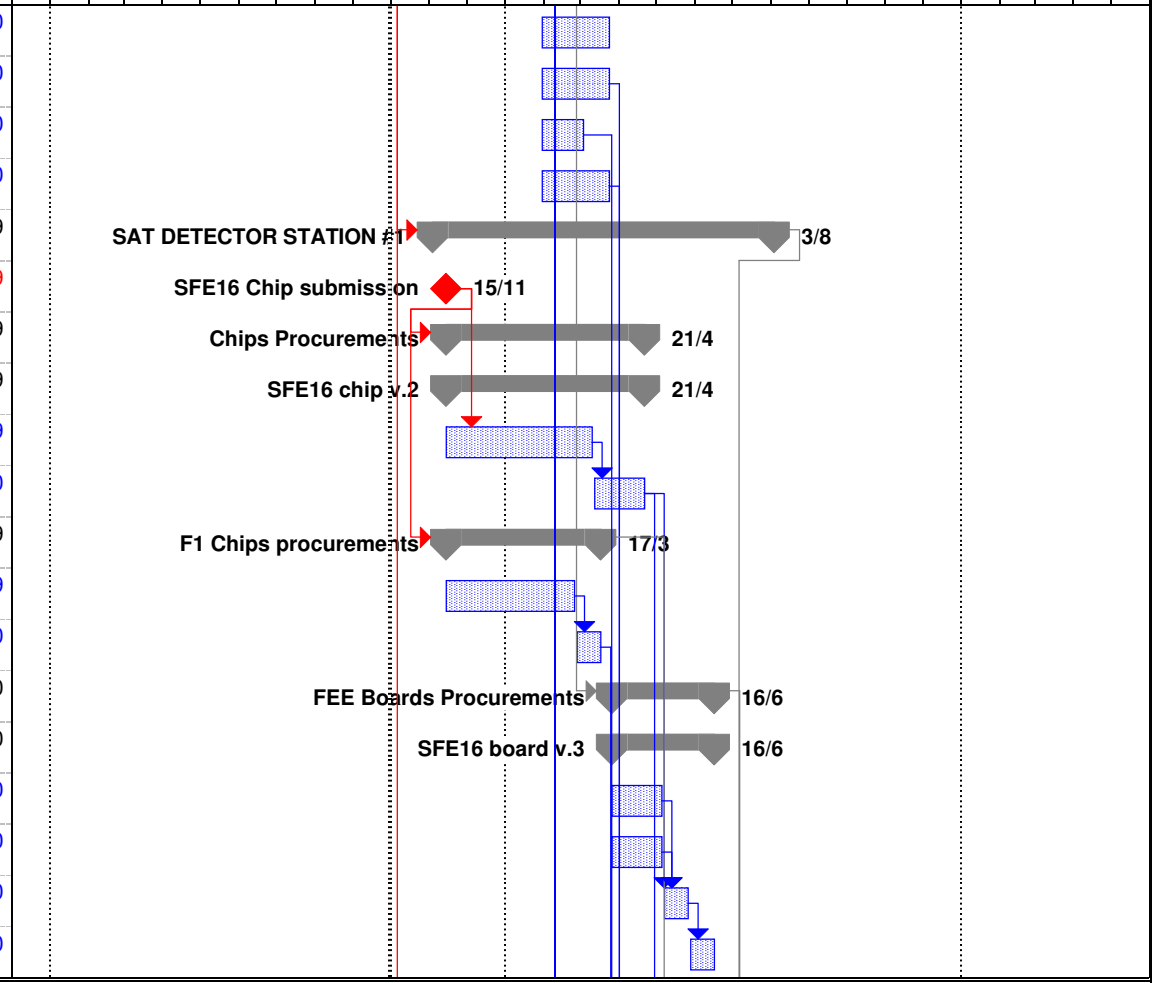
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 54 | SFE16 board v.3 fir | 8 wks | Mon 31/1/00 |
| 55 | F1 board final desig | 8 wks | Mon 31/1/00 |
| 56 | Bus Printed Board I | 5 wks | Mon 31/1/00 |
| 57 | Threshold control b | 8 wks | Mon 31/1/00 |
| 58 | SAT DETECTOR STATION # | 196 days | Thu 4/11/99 |
| 59 | SFE16 Chip submission | 0 days | Mon 15/11/99 |
| 60 | Chips Procurements | 115 days | Mon 15/11/99 |
| 61 | SFE16 chip v.2 | 115 days | Mon 15/11/99 |
| 62 | Chip Procurem | 17 wks | Mon 15/11/99 |
| 63 | Reception & te | 6 wks | Mon 13/3/00 |
| 64 | F1 Chips procurem | 90 days | Mon 15/11/99 |
| 65 | F1 Chips procu | 15 wks | Mon 15/11/99 |
| 66 | Reception and | 3 wks | Mon 28/2/00 |
| 67 | FEE Boards Procureme | 60 days | Mon 27/3/00 |
| 68 | SFE16 board v.3 | 60 days | Mon 27/3/00 |
| 69 | Fabrication | 6 wks | Mon 27/3/00 |
| 70 | LVDS links to I | 6 wks | Mon 27/3/00 |
| 71 | Cabling | 3 wks | Mon 8/5/00 |
| 72 | Tests | 3 wks | Mon 29/5/00 |

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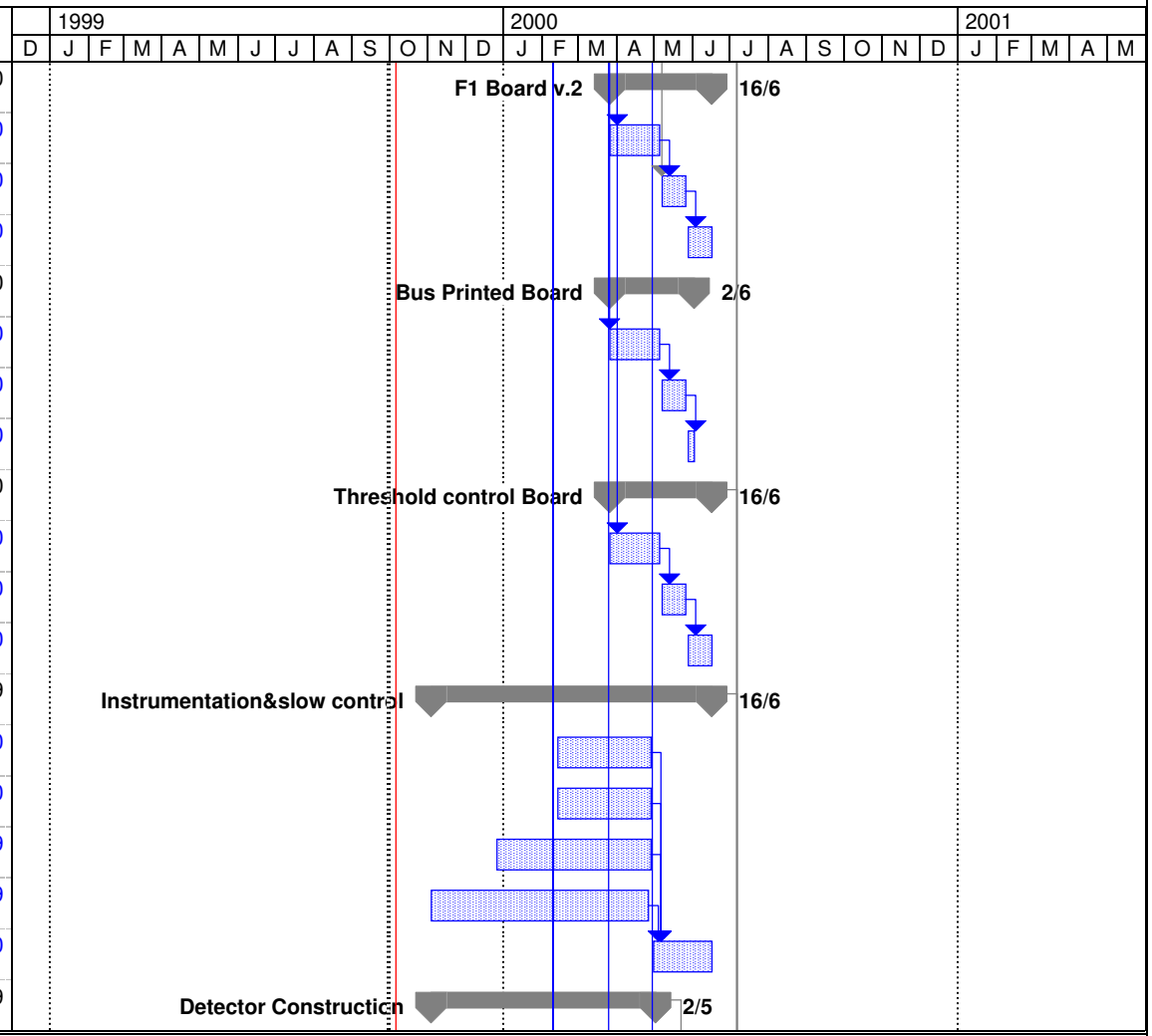
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 73 | F1 Board v.2 | 60 days | Mon 27/3/00 |
| 74 | Printed Board | 6 wks | Mon 27/3/00 |
| 75 | Cabling | 3 wks | Mon 8/5/00 |
| 76 | Tests | 3 wks | Mon 29/5/00 |
| 77 | Bus Printed Board | 50 days | Mon 27/3/00 |
| 78 | Fabrication | 6 wks | Mon 27/3/00 |
| 79 | Cabling | 3 wks | Mon 8/5/00 |
| 80 | Reception & te | 1 wk | Mon 29/5/00 |
| 81 | Threshold control B | 60 days | Mon 27/3/00 |
| 82 | Fabrication | 6 wks | Mon 27/3/00 |
| 83 | Cabling | 3 wks | Mon 8/5/00 |
| 84 | Tests | 3 wks | Mon 29/5/00 |
| 85 | Instrumentation&slow cc | 162 days | Thu 4/11/99 |
| 86 | HV supply | 11 wks | Mon 14/2/00 |
| 87 | LV supply | 11 wks | Mon 14/2/00 |
| 88 | gas supply | 18 wks | Mon 27/12/99 |
| 89 | Slow control | 25 wks | Thu 4/11/99 |
| 90 | Slow control & Instr | 7 wks | Mon 1/5/00 |
| 91 | Detector Construction | 129 days | Thu 4/11/99 |

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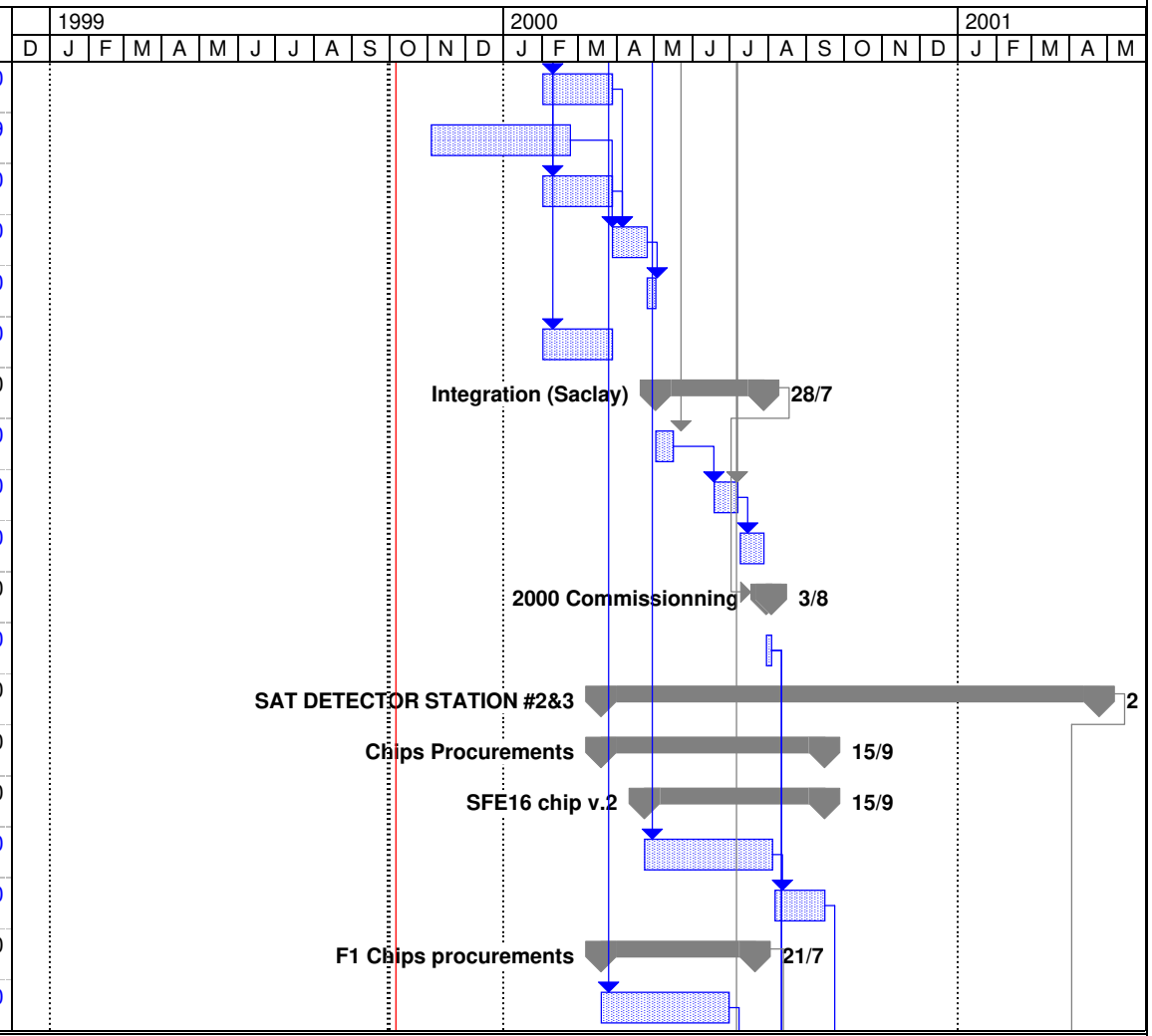
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 92 | µM Printed Board P | 8 wks | Wed 2/2/00 |
| 93 | Mesh procurements | 16 wks | Thu 4/11/99 |
| 94 | Mechanics procurei | 8 wks | Wed 2/2/00 |
| 95 | Chamber integratio | 4 wks | Wed 29/3/00 |
| 96 | Detector Preliminar | 1 wk | Wed 26/4/00 |
| 97 | Mechanical structur | 8 wks | Wed 2/2/00 |
| 98 | Integration (Saclay) | 63 days | Wed 3/5/00 |
| 99 | Mech. integration | 2 wks | Wed 3/5/00 |
| 100 | System integration | 3 wks | Mon 19/6/00 |
| 101 | Lab Tests | 3 wks | Mon 10/7/00 |
| 102 | 2000 Commissionning | 4 days | Mon 31/7/00 |
| 103 | Transport | 4 days | Mon 31/7/00 |
| 104 | SAT DETECTOR STATION # | 287 days | Mon 20/3/00 |
| 105 | Chips Procurements | 130 days | Mon 20/3/00 |
| 106 | SFE16 chip v.2 | 105 days | Mon 24/4/00 |
| 107 | Chip Procurem | 15 wks | Mon 24/4/00 |
| 108 | Reception & te | 6 wks | Mon 7/8/00 |
| 109 | F1 Chips procurem | 90 days | Mon 20/3/00 |
| 110 | F1 Chips procu | 15 wks | Mon 20/3/00 |

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# Compass Spectrometer / CERN

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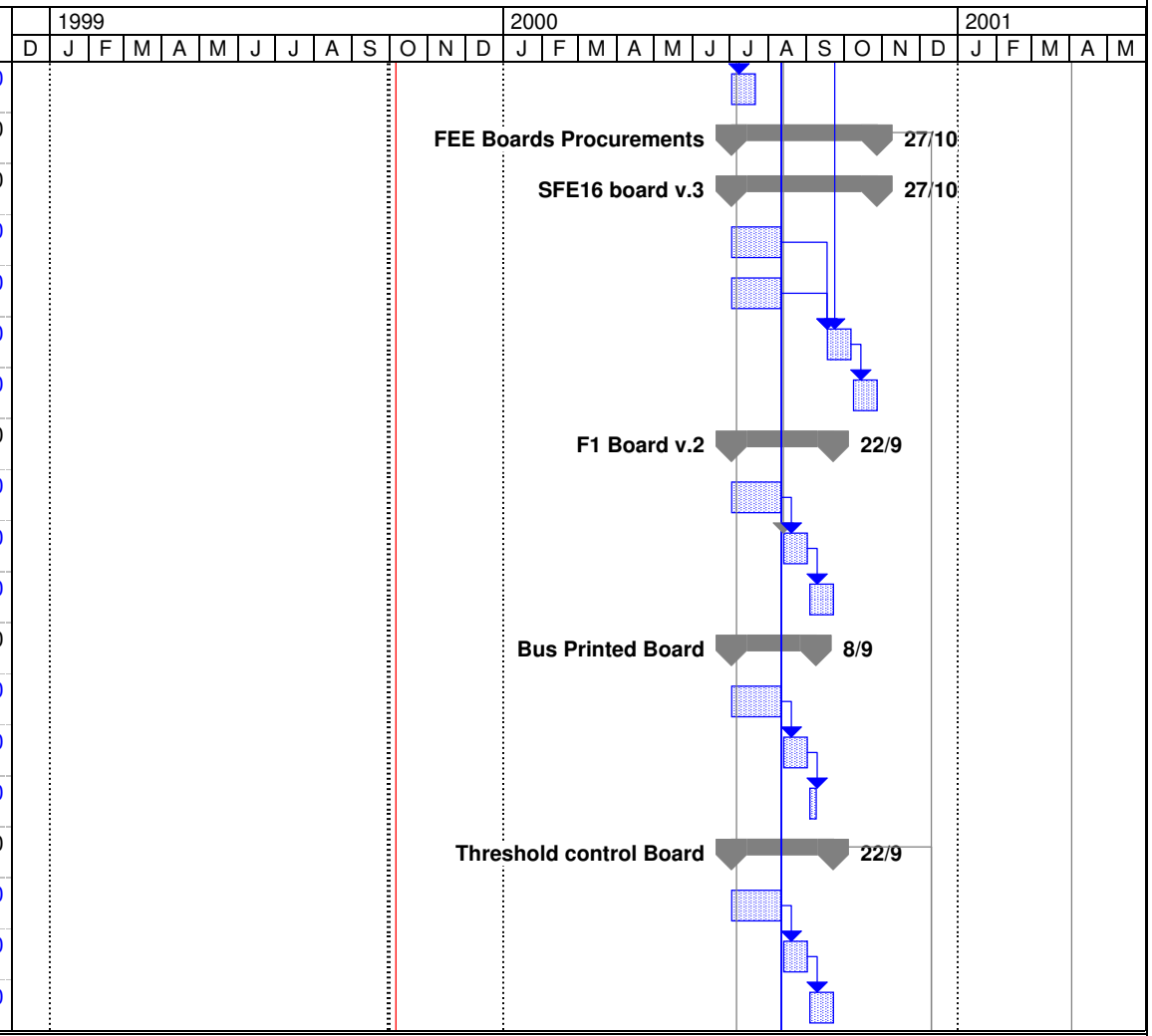
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 111 | Reception and | 3 wks | Mon 3/7/00 |
| 112 | FEE Boards Procureme | 85 days | Mon 3/7/00 |
| 113 | SFE16 board v.3 | 85 days | Mon 3/7/00 |
| 114 | Fabrication | 6 wks | Mon 3/7/00 |
| 115 | LVDS links to I | 6 wks | Mon 3/7/00 |
| 116 | Cabling | 3 wks | Mon 18/9/00 |
| 117 | Tests | 3 wks | Mon 9/10/00 |
| 118 | F1 Board v.2 | 60 days | Mon 3/7/00 |
| 119 | Printed Board | 6 wks | Mon 3/7/00 |
| 120 | Cabling | 3 wks | Mon 14/8/00 |
| 121 | Tests | 3 wks | Mon 4/9/00 |
| 122 | Bus Printed Board | 50 days | Mon 3/7/00 |
| 123 | Fabrication | 6 wks | Mon 3/7/00 |
| 124 | Cabling | 3 wks | Mon 14/8/00 |
| 125 | Reception & te | 1 wk | Mon 4/9/00 |
| 126 | Threshold control B | 60 days | Mon 3/7/00 |
| 127 | Fabrication | 6 wks | Mon 3/7/00 |
| 128 | Cabling | 3 wks | Mon 14/8/00 |
| 129 | Tests | 3 wks | Mon 4/9/00 |

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# Compass Spectrometer / CERN

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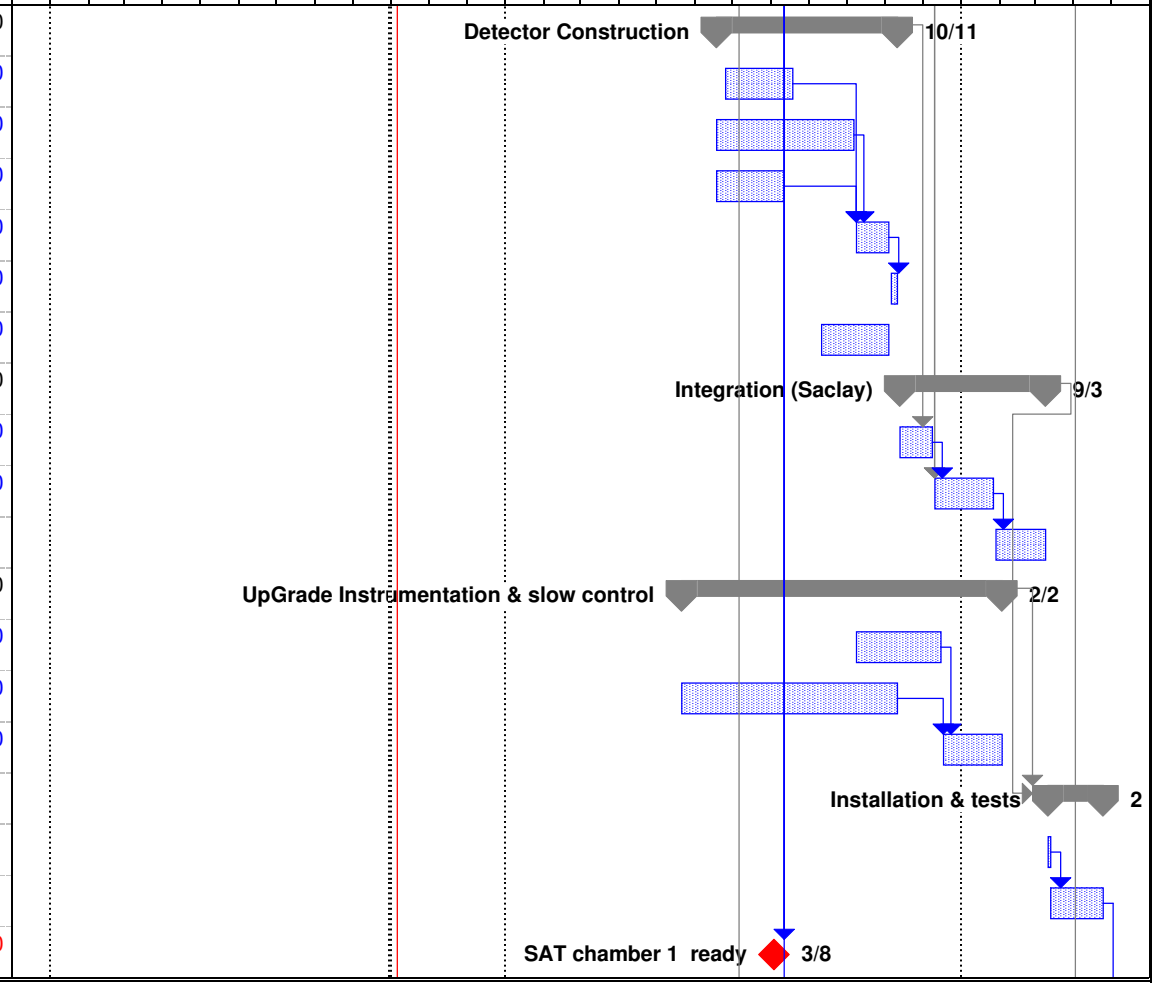
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 130 | Detector Construction | 105 days | Mon 19/6/00 |
| 131 | µM Printed Board P | 8 wks | Mon 26/6/00 |
| 132 | Mesh procurements | 16 wks | Mon 19/6/00 |
| 133 | Mechanics procurei | 8 wks | Mon 19/6/00 |
| 134 | Chamber integratio | 4 wks | Mon 9/10/00 |
| 135 | Detector Preliminar | 1 wk | Mon 6/11/00 |
| 136 | Mechanical structur | 8 wks | Mon 11/9/00 |
| 137 | Integration (Saclay) | 85 days | Mon 13/11/00 |
| 138 | Mech. integration | 4 wks | Mon 13/11/00 |
| 139 | System integration | 7 wks | Mon 11/12/00 |
| 140 | Lab Tests | 6 wks | Mon 29/1/01 |
| 141 | UpGrade Instrumentatio | 185 days | Mon 22/5/00 |
| 142 | gas supply | 10 wks | Mon 9/10/00 |
| 143 | Slow control | 25 wks | Mon 22/5/00 |
| 144 | Slow control & Instr | 7 wks | Mon 18/12/00 |
| 145 | Installation & tests | 32 days | Mon 12/3/01 |
| 146 | Transport | 2 days | Mon 12/3/01 |
| 147 | Tests at CERN | 6 wks | Wed 14/3/01 |
| 148 | SAT chamber 1 ready | 0 days | Thu 3/8/00 |

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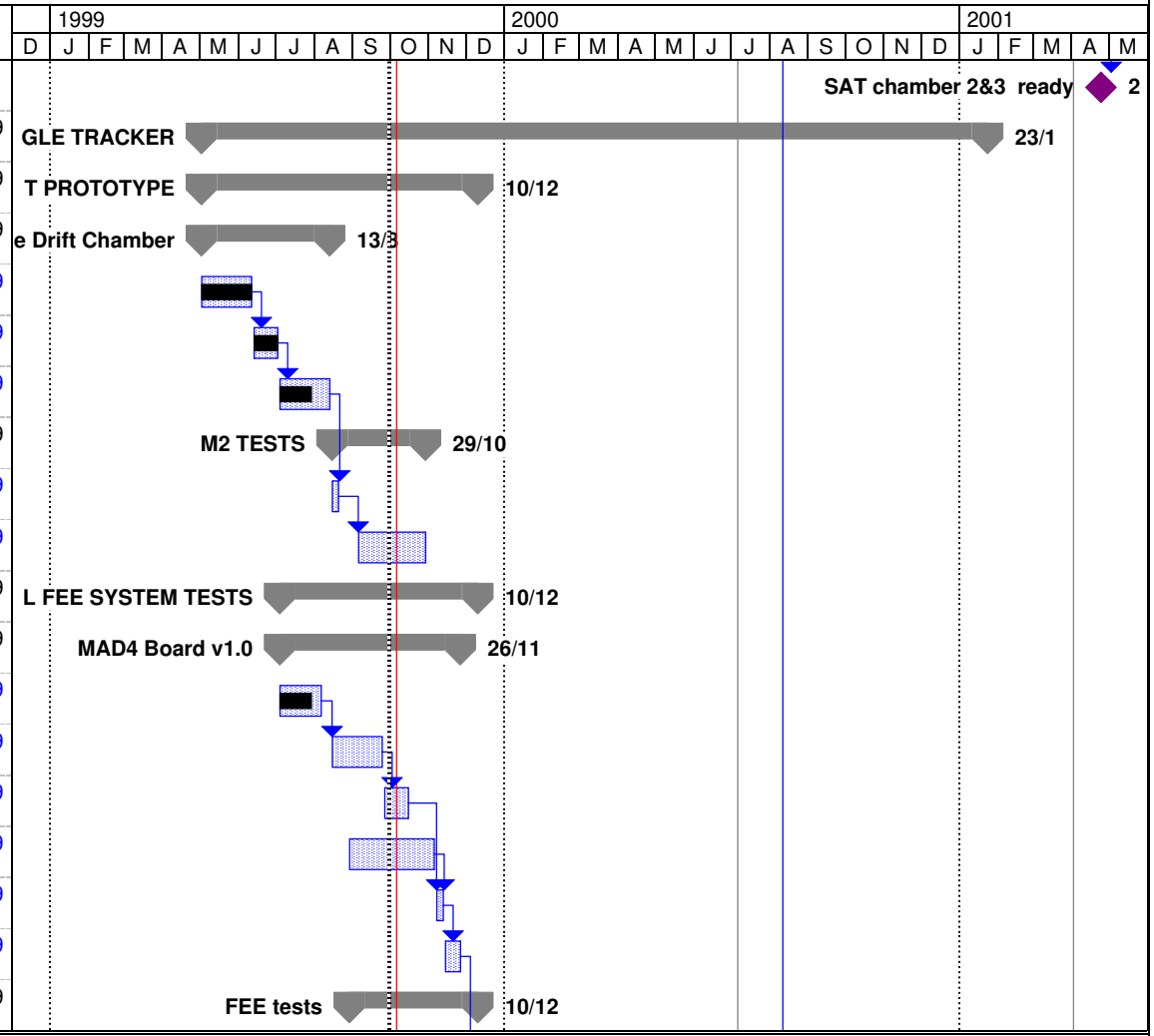
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 149 | SAT chamber 2&3 ready | 0 days | Tue 24/4/01 |
| 150 | DRIFT CHAMBERS LARGE ANG | 452 days | Mon 3/5/99 |
| 151 | LAT PROTOTYPE | 160 days | Mon 3/5/99 |
| 152 | Large Drift Chamber | 75 days | Mon 3/5/99 |
| 153 | Design | 6 wks | Mon 3/5/99 |
| 154 | Procurements | 3 wks | Mon 14/6/99 |
| 155 | Construction | 6 wks | Mon 5/7/99 |
| 156 | M2 TESTS | 55 days | Mon 16/8/99 |
| 157 | Lab Tests | 1 wk | Mon 16/8/99 |
| 158 | M2 (SPS) septembe | 8 wks | Mon 6/9/99 |
| 159 | GLOBAL FEE SYSTEM | 115 days | Mon 5/7/99 |
| 160 | MAD4 Board v1.0 | 105 days | Mon 5/7/99 |
| 161 | Design | 5 wks | Mon 5/7/99 |
| 162 | MAD4 board P | 6 wks | Mon 16/8/99 |
| 163 | Cabling | 3 wks | Mon 27/9/99 |
| 164 | MAD4 Procure | 10 wks | Mon 30/8/99 |
| 165 | MAD4 Integrat | 1 wk | Mon 8/11/99 |
| 166 | Tests | 2 wks | Mon 15/11/99 |
| 167 | FEE tests | 75 days | Mon 30/8/99 |

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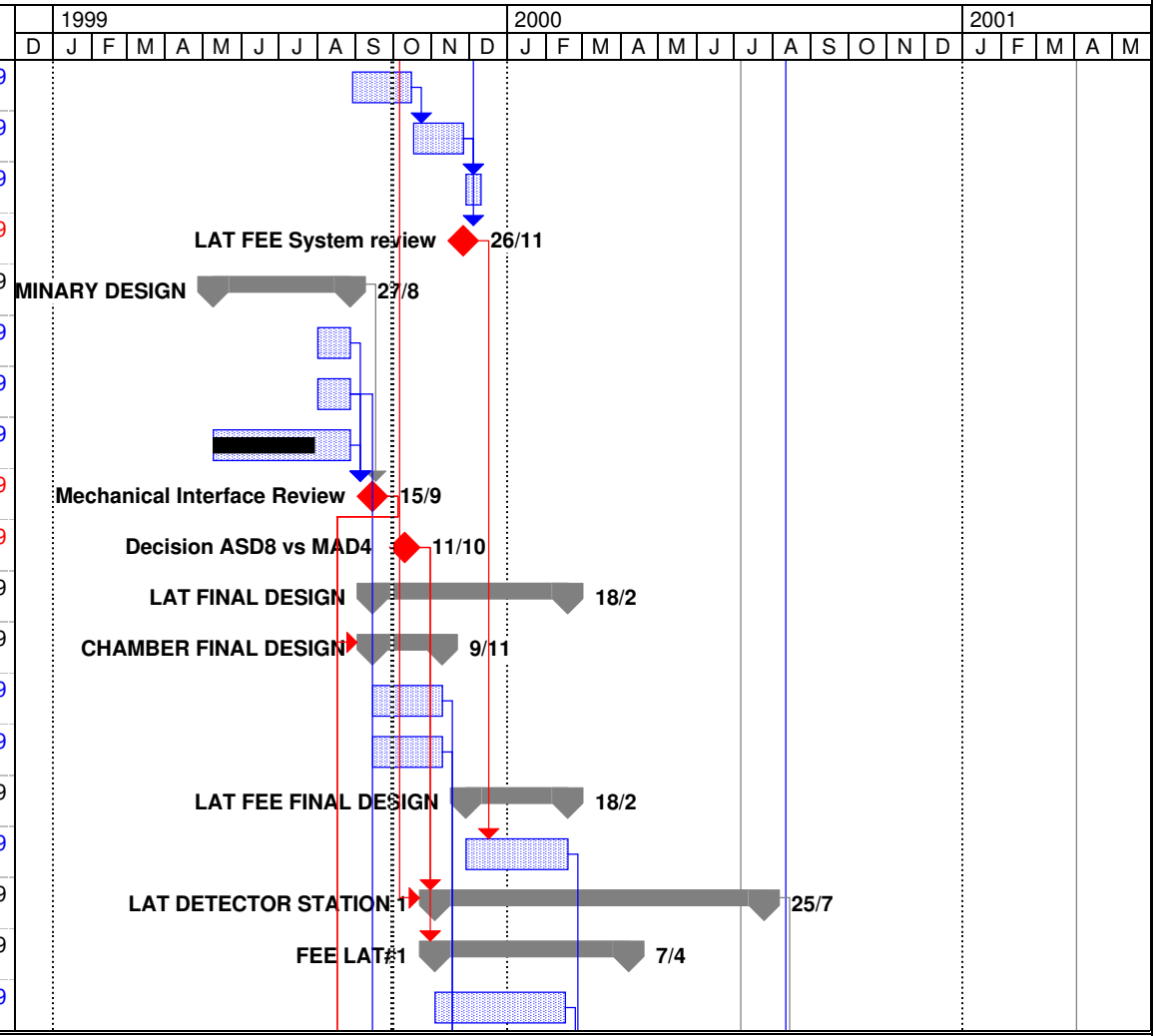
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 168 | F1 board (Freil | 7 wks | Mon 30/8/99 |
| 169 | ASD8+F1+Cat | 6 wks | Mon 18/10/99 |
| 170 | MAD4+F1+Cat | 2 wks | Mon 29/11/99 |
| 171 | LAT FEE System review | 0 days | Fri 26/11/99 |
| 172 | LAT PRELIMINARY DESIGN | 80 days | Mon 10/5/99 |
| 173 | FEE preliminary design | 4 wks | Mon 2/8/99 |
| 174 | Chambers preliminary d | 4 wks | Mon 2/8/99 |
| 175 | Platform preliminary des | 16 wks | Mon 10/5/99 |
| 176 | Mechanical Interface Review | 0 days | Wed 15/9/99 |
| 177 | Decision ASD8 vs MAD4 | 0 days | Mon 11/10/99 |
| 178 | LAT FINAL DESIGN | 113 days | Wed 15/9/99 |
| 179 | CHAMBER FINAL DESI | 40 days | Wed 15/9/99 |
| 180 | Chamber design | 8 wks | Wed 15/9/99 |
| 181 | Tools | 8 wks | Wed 15/9/99 |
| 182 | LAT FEE FINAL DESIGI | 60 days | Mon 29/11/99 |
| 183 | FE boards final des | 12 wks | Mon 29/11/99 |
| 184 | LAT DETECTOR STATION 1 | 189 days | Thu 4/11/99 |
| 185 | FEE LAT#1 | 112 days | Thu 4/11/99 |
| 186 | Chips Procuremen | 15 wks | Thu 4/11/99 |

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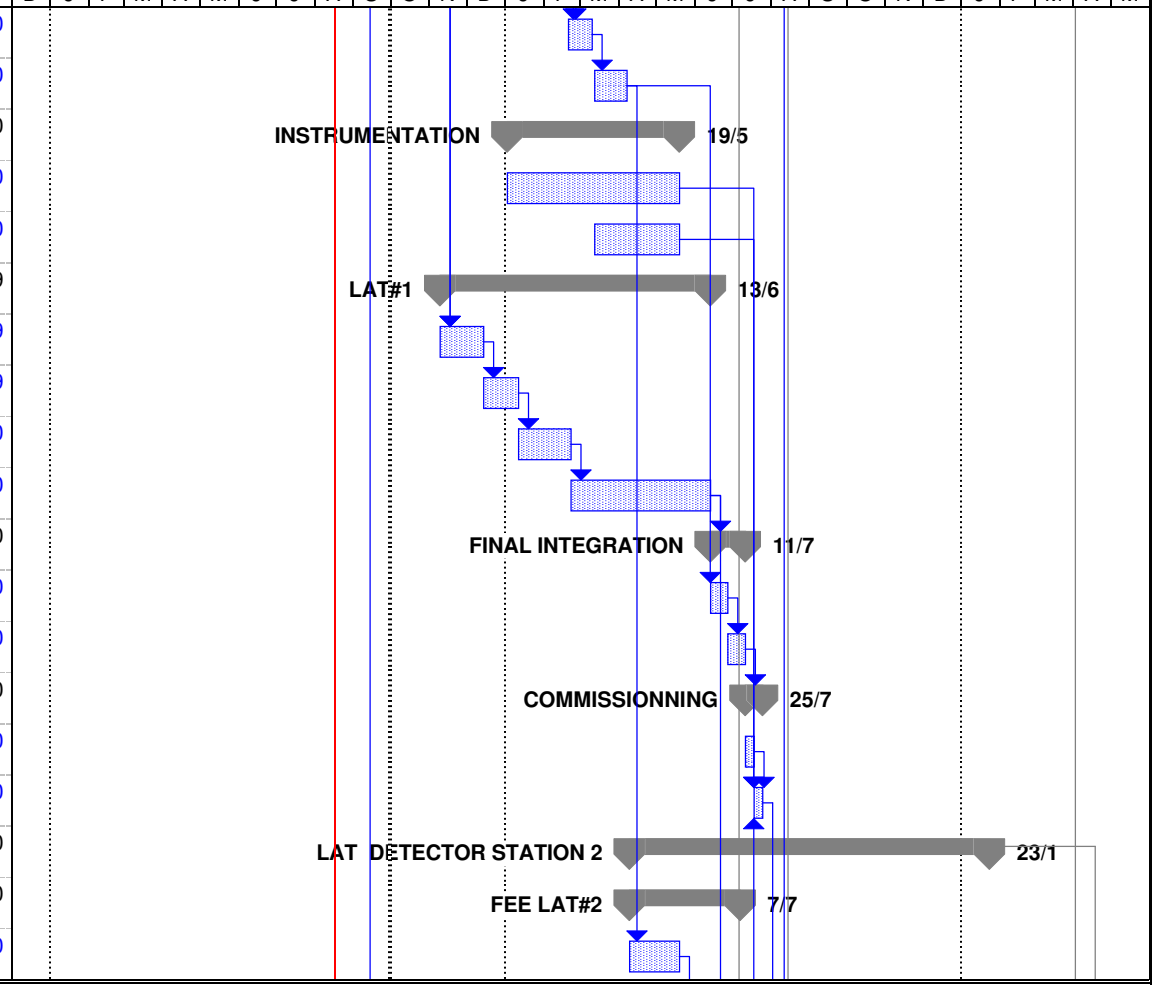
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 187 | FE boards cabling | 3 wks | Mon 21/2/00 |
| 188 | FE boards Tests | 4 wks | Mon 13/3/00 |
| 189 | INSTRUMENTATION | 100 days | Mon 3/1/00 |
| 190 | Gas system | 20 wks | Mon 3/1/00 |
| 191 | HV/LV system | 10 wks | Mon 13/3/00 |
| 192 | LAT#1 | 155 days | Wed 10/11/99 |
| 193 | Final drawing (subc | 5 wks | Wed 10/11/99 |
| 194 | Call for tender | 4 wks | Wed 15/12/99 |
| 195 | Procurements | 6 wks | Wed 12/1/00 |
| 196 | Construction chamt | 16 wks | Wed 23/2/00 |
| 197 | FINAL INTEGRATION | 20 days | Wed 14/6/00 |
| 198 | Integration (Electroı | 2 wks | Wed 14/6/00 |
| 199 | Tests | 2 wks | Wed 28/6/00 |
| 200 | COMMISSIONNING | 10 days | Wed 12/7/00 |
| 201 | Transport | 1 wk | Wed 12/7/00 |
| 202 | Intégration (CERN) | 1 wk | Wed 19/7/00 |
| 203 | LAT DETECTOR STATION | 207 days | Mon 10/4/00 |
| 204 | FEE LAT#2 | 65 days | Mon 10/4/00 |
| 205 | FE board procurem | 6 wks | Mon 10/4/00 |

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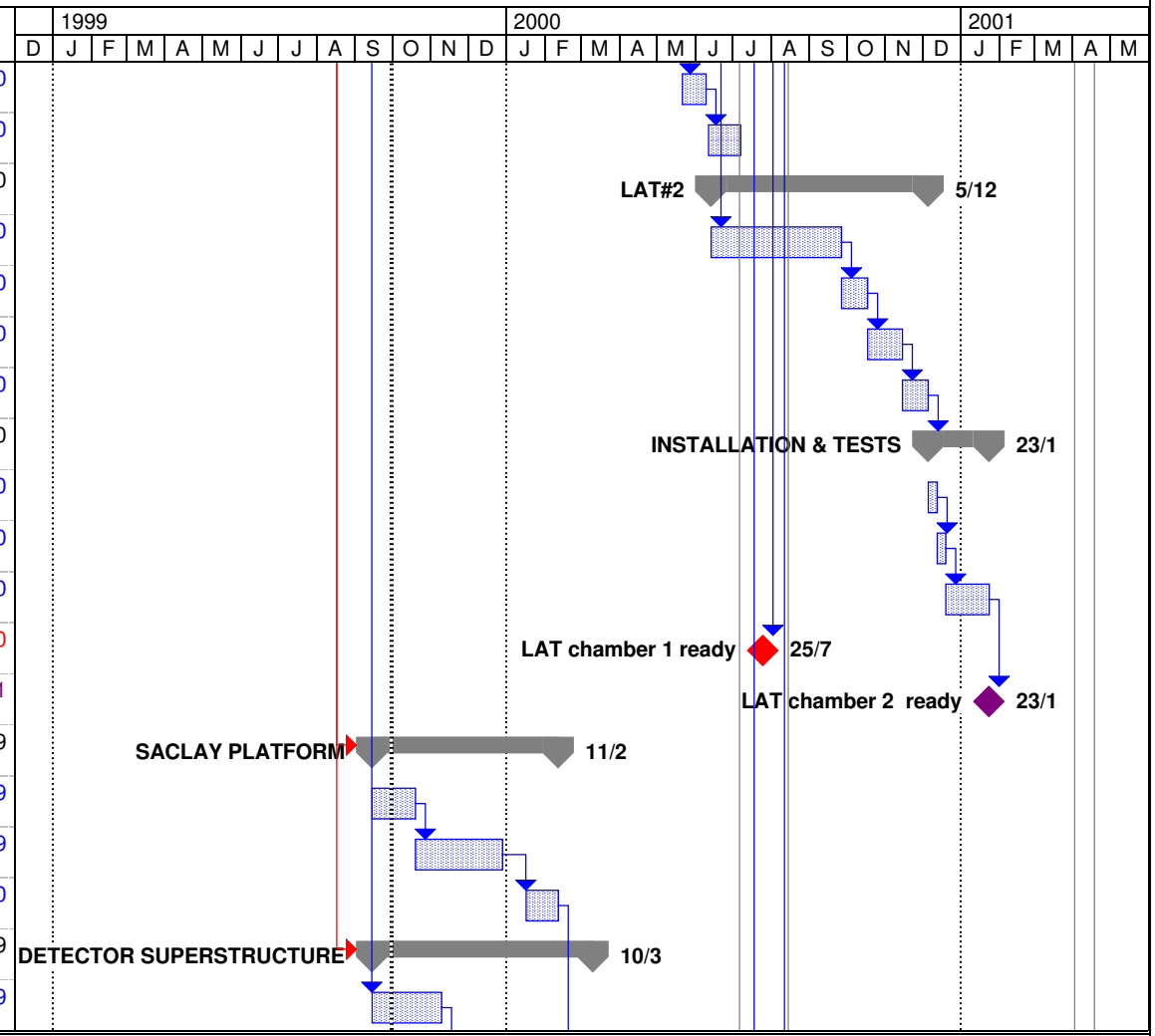
|---|---|---|---|
| 206 | FE board cabling | 3 wks | Mon 22/5/00 |
| 207 | FE board Tests | 4 wks | Mon 12/6/00 |
| 208 | LAT#2 | 125 days | Wed 14/6/00 |
| 209 | Construction chamt | 15 wks | Wed 14/6/00 |
| 210 | Integration (Mechar | 3 wks | Wed 27/9/00 |
| 211 | Integration (Electroı | 4 wks | Wed 18/10/00 |
| 212 | Tests | 3 wks | Wed 15/11/00 |
| 213 | INSTALLATION & TEST | 35 days | Wed 6/12/00 |
| 214 | Transport | 1 wk | Wed 6/12/00 |
| 215 | Intégration (CERN) | 1 wk | Wed 13/12/00 |
| 216 | Tests (CERN) | 5 wks | Wed 20/12/00 |
| 217 | LAT chamber 1 ready | 0 days | Tue 25/7/00 |
| 218 | LAT chamber 2 ready | 0 days | Tue 23/1/01 |
| 219 | SACLAY PLATFORM | 108 days | Wed 15/9/99 |
| 220 | Platform final design | 5 wks | Wed 15/9/99 |
| 221 | Platform procurement | 10 wks | Wed 20/10/99 |
| 222 | Platform integration (CERN) | 4 wks | Mon 17/1/00 |
| 223 | DETECTOR SUPERSTRUCTURE | 128 days | Wed 15/9/99 |
| 224 | Superstructure design | 8 wks | Wed 15/9/99 |




Project: Compass Spectrometer
Date: Mon 2/8/99
Co-ordinator: Gerhard Mallot /CERN

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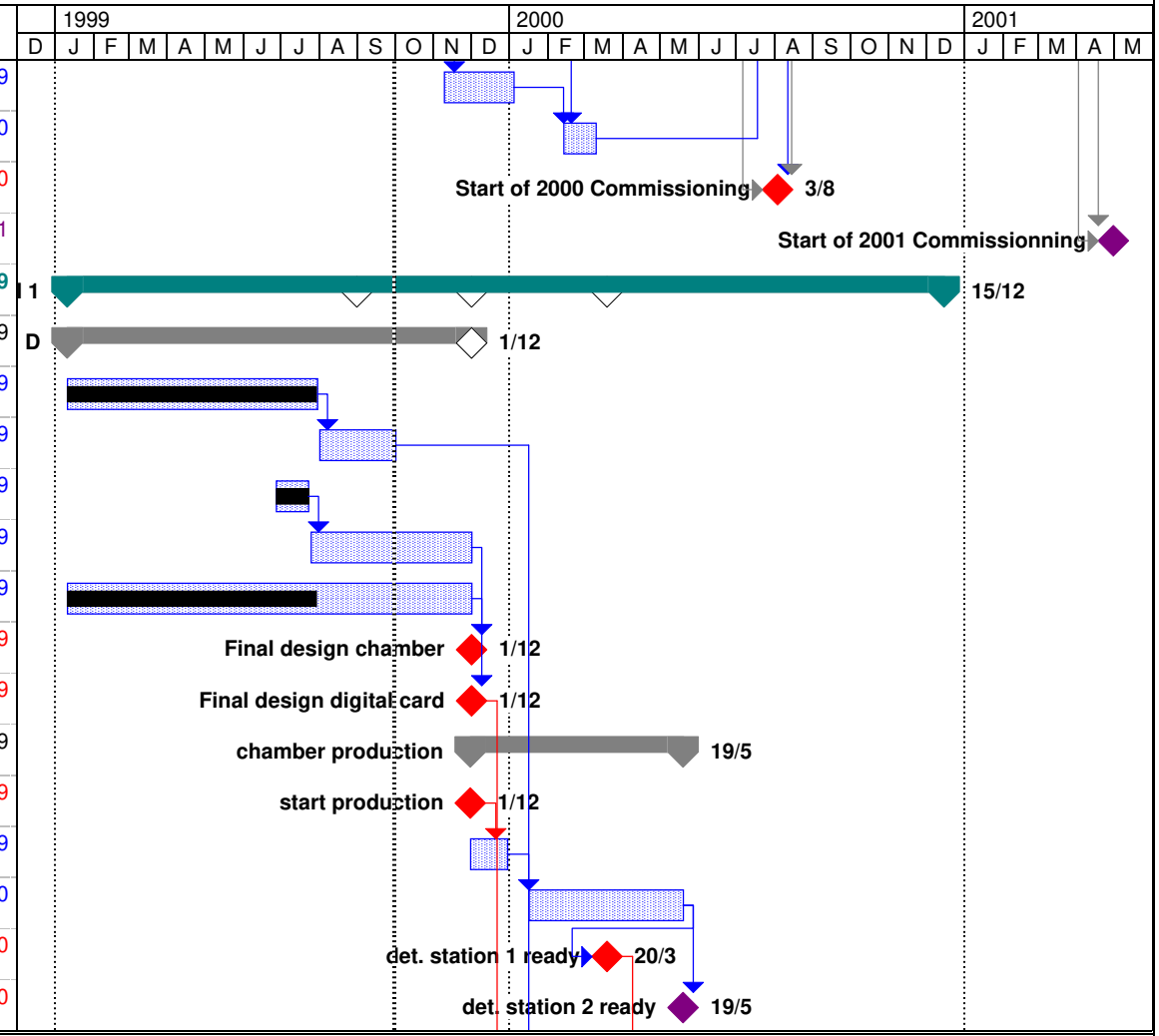
# Compass Spectrometer / CERN

Thu 30/9/99

| ID | Task Name | Duration | Start |
|---|---|---|---|
| 225 | Procurements | 8 wks | Wed 10/11/99 |
| 226 | Integration (CERN) | 4 wks | Mon 14/2/00 |
| 227 | Start of 2000 Commissioning | 0 days | Thu 3/8/00 |
| 228 | Start of 2001 Commissionning | 0 days | Tue 1/5/01 |
| 13 | **Muon wall 1** | **494 days** | **Mon 11/1/99** |
| 1 | R&D | 233 days | Mon 11/1/99 |
| 2 | Conceptual eng. Design | 145 days | Mon 11/1/99 |
| 3 | Concept. Assembly/mounting | 9 wks | Mon 2/8/99 |
| 4 | Prototype chamber testbeam | 4 wks | Mon 28/6/99 |
| 5 | Opt. Gas mixture | 93 days | Mon 26/7/99 |
| 6 | Concept digital electronics | 233 days | Mon 11/1/99 |
| 7 | Final design chamber | 0 days | Wed 1/12/99 |
| 8 | Final design digital card | 0 days | Wed 1/12/99 |
| 9 | chamber production | 112 days | Wed 1/12/99 |
| 10 | start production | 0 days | Wed 1/12/99 |
| 11 | ABS extrusion optimisation | 22 days | Wed 1/12/99 |
| 12 | detector mass production | 18 wks | Mon 17/1/00 |
| 13 | det. station 1 ready | 0 days | Mon 20/3/00 |
| 14 | det. station 2 ready | 0 days | Fri 19/5/00 |

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Date: Mon 2/8/99
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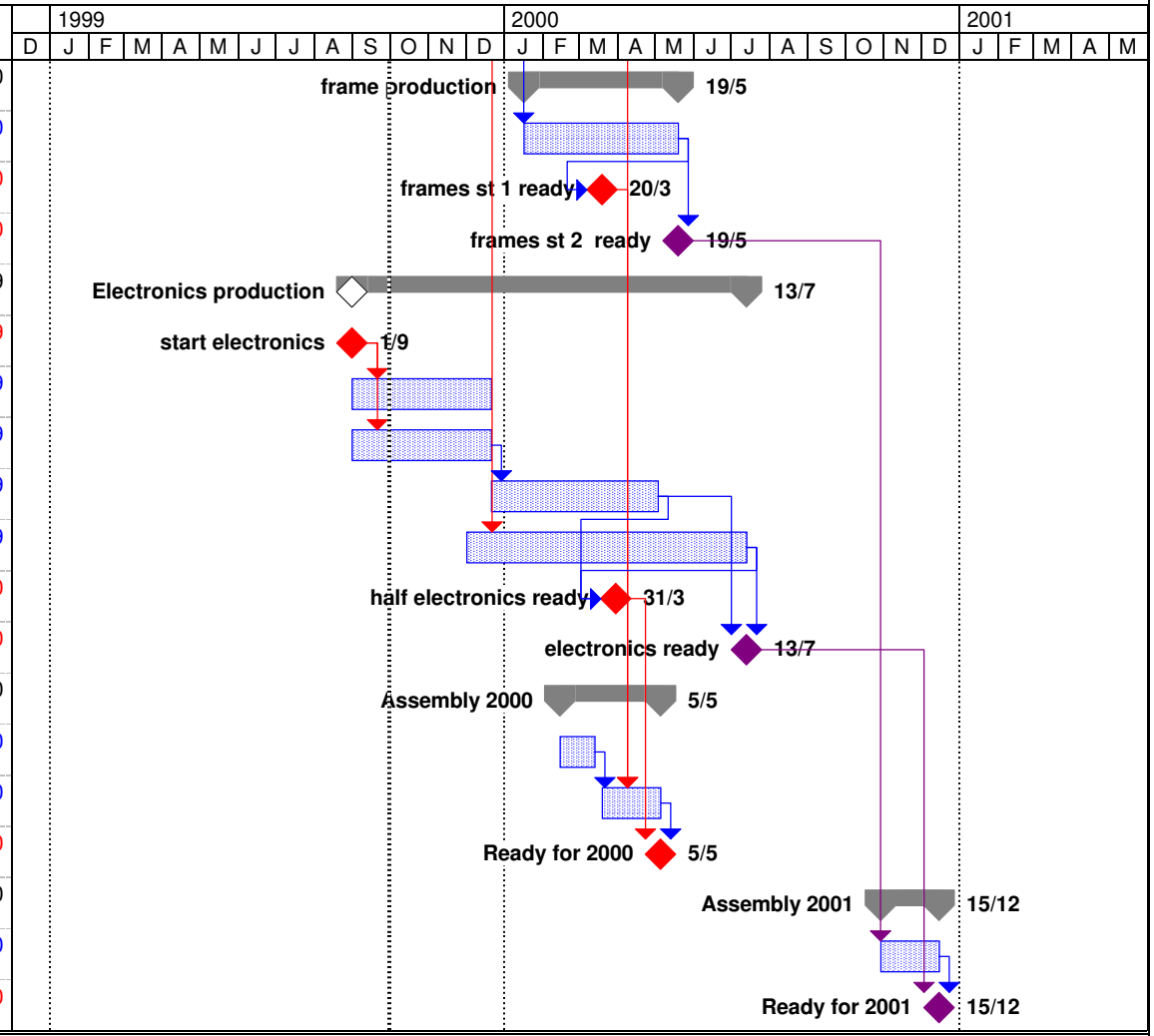
# Compass Spectrometer / CERN

Thu 30/9/99

| ID | Task Name | Duration | Start |
|---|---|---|---|
| 15 | frame production | 90 days | Mon 17/1/00 |
| 16 | Frame production | 18 wks | Mon 17/1/00 |
| 17 | frames st 1 ready | 0 days | Mon 20/3/00 |
| 18 | frames st 2 ready | 0 days | Fri 19/5/00 |
| 19 | Electronics production | 216 days | Wed 1/9/99 |
| 20 | start electronics | 0 days | Wed 1/9/99 |
| 21 | Analog electronics | 16 wks | Wed 1/9/99 |
| 22 | PC Boards | 16 wks | Wed 1/9/99 |
| 23 | assembly and tests | 17 wks | Wed 22/12/99 |
| 24 | digital cards | 30 wks | Thu 2/12/99 |
| 25 | half electronics ready | 0 days | Fri 31/3/00 |
| 26 | electronics ready | 0 days | Thu 13/7/00 |
| 27 | Assembly 2000 | 59 days | Tue 15/2/00 |
| 28 | Prepare assembly | 4 wks | Tue 15/2/00 |
| 29 | Assembly 2000 | 7 wks | Mon 20/3/00 |
| 30 | Ready for 2000 | 0 days | Fri 5/5/00 |
| 31 | Assembly 2001 | 35 days | Mon 30/10/00 |
| 32 | Assembly 2001 | 7 wks | Mon 30/10/00 |
| 33 | Ready for 2001 | 0 days | Fri 15/12/00 |

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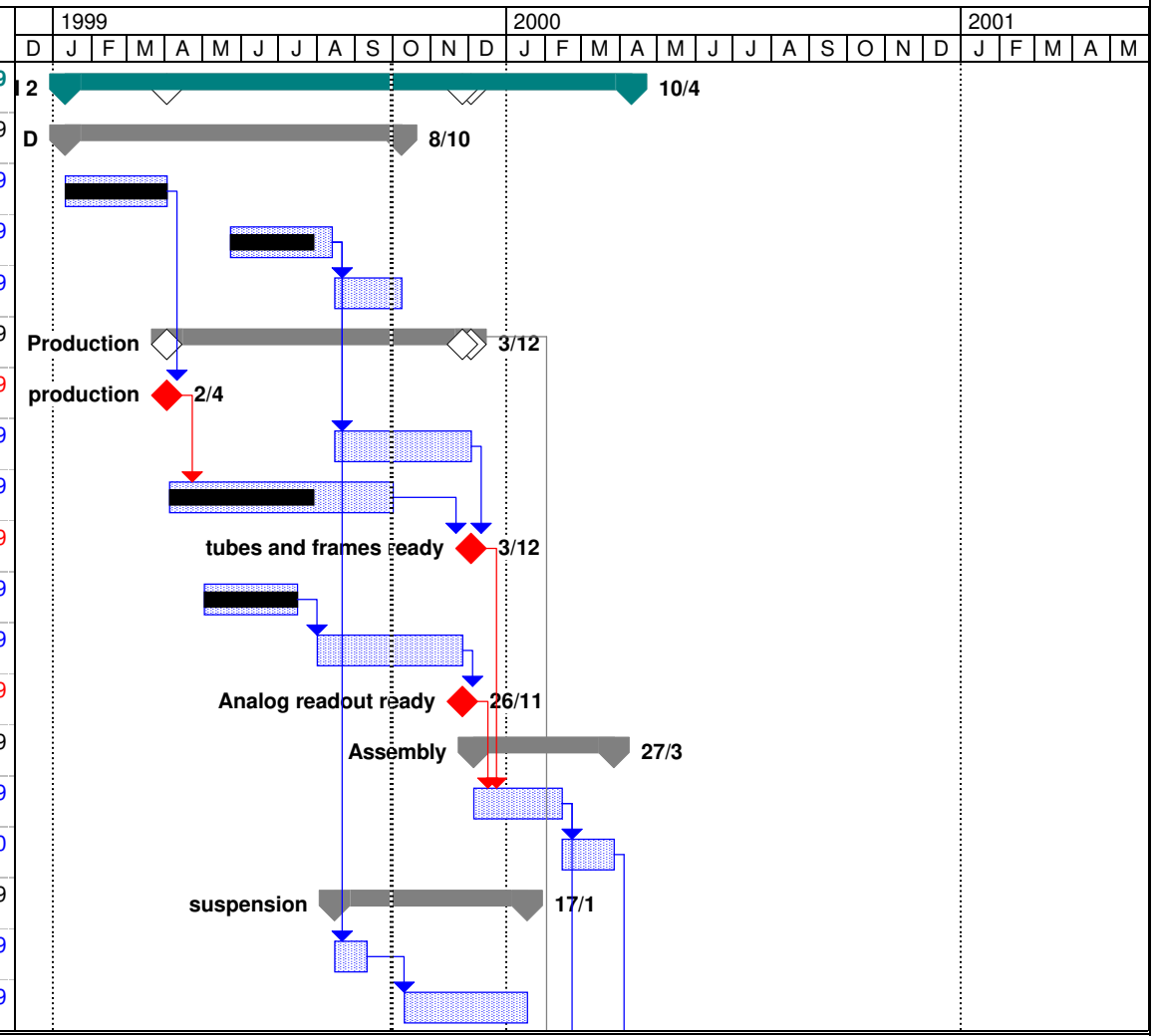
# Compass Spectrometer / CERN

Thu 30/9/99

| ID | Task Name | Duration | Start |
|---|---|---|---|
| 14 | **Muon Wall 2** | **315 days** | **Mon 11/1/99** |
| 1 | R & D | 195 days | Mon 11/1/99 |
| 2 | tubes | 12 wks | Mon 11/1/99 |
| 3 | frame | 12 wks | Mon 24/5/99 |
| 4 | mother board | 8 wks | Mon 16/8/99 |
| 5 | Production | 175 days | Fri 2/4/99 |
| 6 | start tube production | 0 days | Fri 2/4/99 |
| 7 | frames | 16 wks | Mon 16/8/99 |
| 8 | tubes | 26 wks | Mon 5/4/99 |
| 9 | tubes and frames ready | 0 days | Fri 3/12/99 |
| 10 | Amplifier PCs | 11 wks | Mon 3/5/99 |
| 11 | AS full cards | 17 wks | Mon 2/8/99 |
| 12 | Analog readout ready | 0 days | Fri 26/11/99 |
| 13 | Assembly | 70 days | Mon 6/12/99 |
| 14 | Assembly 1 half | 8 wks | Mon 6/12/99 |
| 15 | Assembly 2 half | 6 wks | Tue 15/2/00 |
| 16 | suspension | 100 days | Mon 16/8/99 |
| 17 | design | 4 wks | Mon 16/8/99 |
| 18 | production | 12 wks | Mon 11/10/99 |

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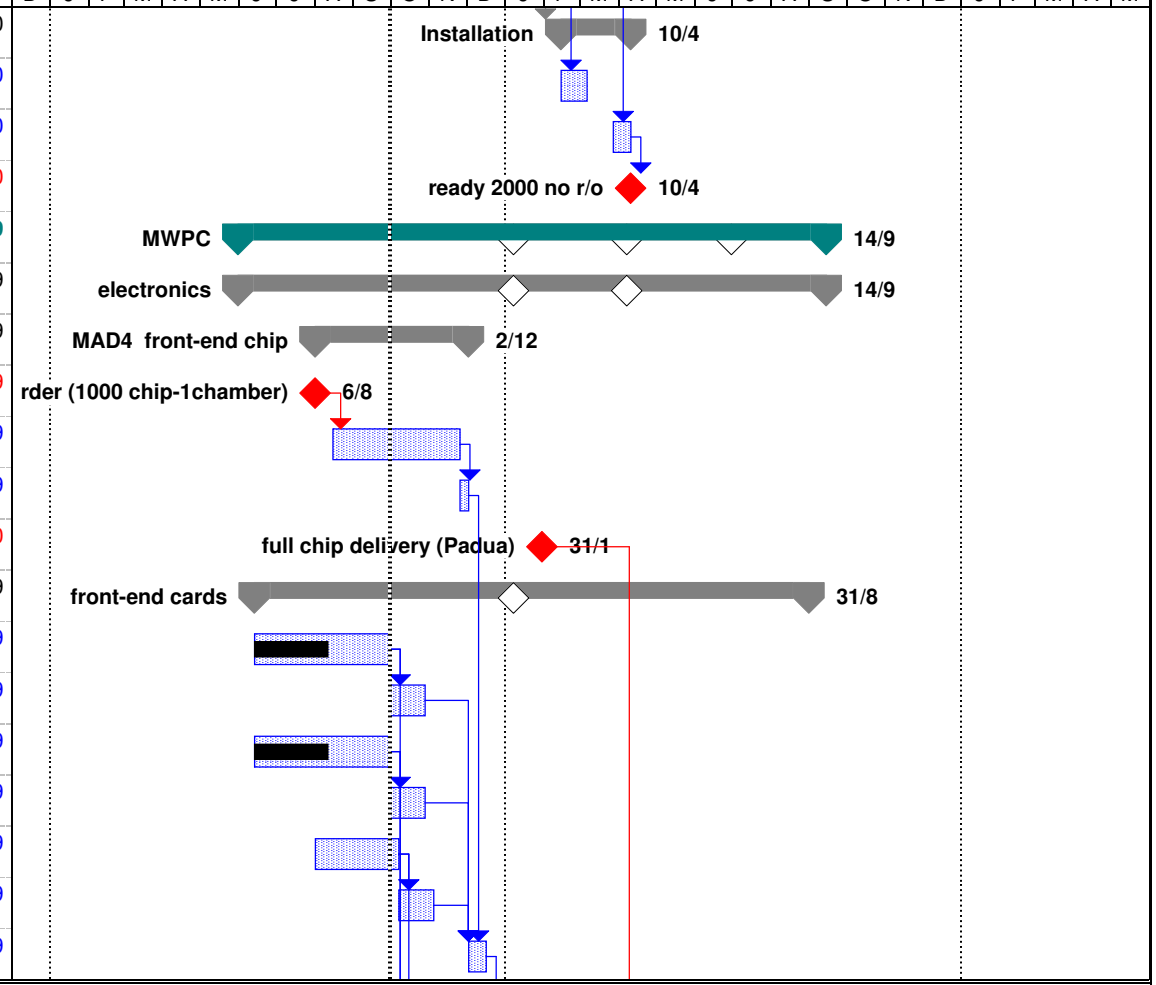
# Compass Spectrometer / CERN

Thu 30/9/99

| ID | Task Name | Duration | Start |
|---|---|---|---|
| 19 | Installation | 40 days | Tue 15/2/00 |
| 20 | installation 1 | 3 wks | Tue 15/2/00 |
| 21 | installation 2 | 2 wks | Tue 28/3/00 |
| 22 | ready 2000 no r/o | 0 days | Mon 10/4/00 |
| 15 | **MWPC** | **304 days** | **Tue 1/6/99** |
| 1 | electronics | 304 days | Tue 1/6/99 |
| 2 | MAD4 front-end chip | 80 days | Mon 2/8/99 |
| 3 | order (1000 chip-1chaml | 1 wk | Mon 2/8/99 |
| 4 | chip delivery (1000 chip) | 14 wks | Mon 16/8/99 |
| 5 | chip test (1000 chip) | 1 wk | Fri 26/11/99 |
| 6 | full chip delivery (Padua) | 0 days | Mon 31/1/00 |
| 7 | front-end cards | 285 days | Mon 14/6/99 |
| 8 | design - preampli board | 14 wks | Mon 14/6/99 |
| 9 | PCB production and deli | 4 wks | Fri 1/10/99 |
| 10 | design - ECL interface b | 14 wks | Mon 14/6/99 |
| 11 | PCB production and deli | 4 wks | Fri 1/10/99 |
| 12 | design - F1 board | 8 wks | Mon 2/8/99 |
| 13 | PCB production and deli | 4 wks | Fri 8/10/99 |
| 14 | laboratory test (1 board) | 2 wks | Fri 3/12/99 |

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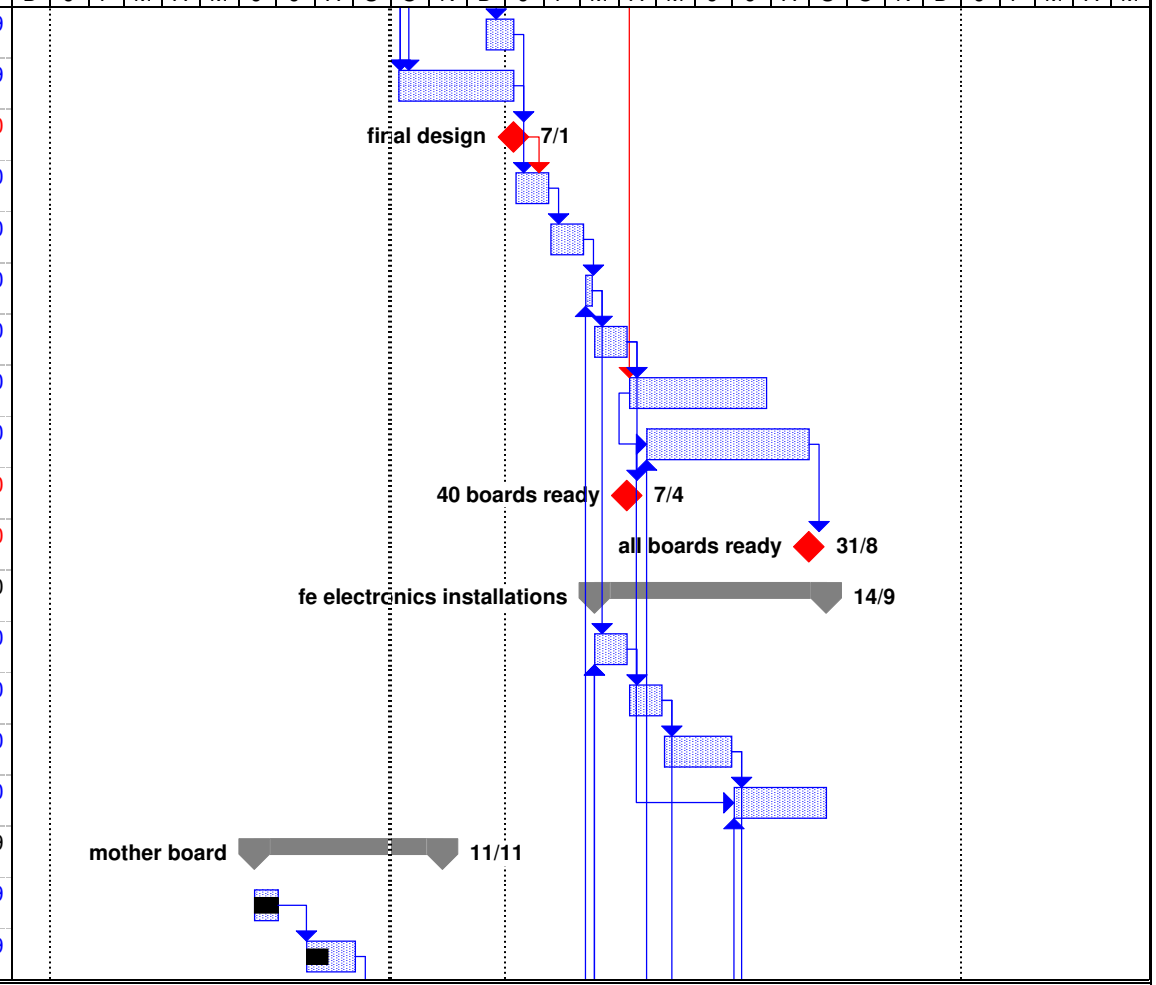
# Compass Spectrometer / CERN

Thu 30/9/99

| ID | Task Name | Duration | Start |
|---|---|---|---|
| 15 | Chamber test (CERN) | 1 wk | Fri 17/12/99 |
| 16 | Final board design | 11 wks | Fri 8/10/99 |
| 17 | final design | 0 days | Fri 7/1/00 |
| 18 | PCB production and deli | 4 wks | Mon 10/1/00 |
| 19 | 40 boards assembly | 4 wks | Mon 7/2/00 |
| 20 | 40 boards lab. test | 1 wk | Mon 6/3/00 |
| 21 | 40 boards chamber test | 4 wks | Mon 13/3/00 |
| 22 | 360 boards production | 16 wks | Mon 10/4/00 |
| 23 | 360 board test | 16 wks | Mon 24/4/00 |
| 24 | 40 boards ready | 0 days | Fri 7/4/00 |
| 25 | all boards ready | 0 days | Thu 31/8/00 |
| 26 | fe electronics installations | 120 days | Mon 13/3/00 |
| 27 | 1st chamber | 4 wks | Mon 13/3/00 |
| 28 | 2 - 3 chamber | 4 wks | Mon 10/4/00 |
| 29 | 4 - 7 chamber | 8 wks | Mon 8/5/00 |
| 30 | 8 - 11 chamber | 8 wks | Mon 3/7/00 |
| 31 | mother board | 100 days | Mon 14/6/99 |
| 32 | design | 3 wks | Mon 14/6/99 |
| 33 | PCB prototype (1 chamt | 4 wks | Mon 26/7/99 |

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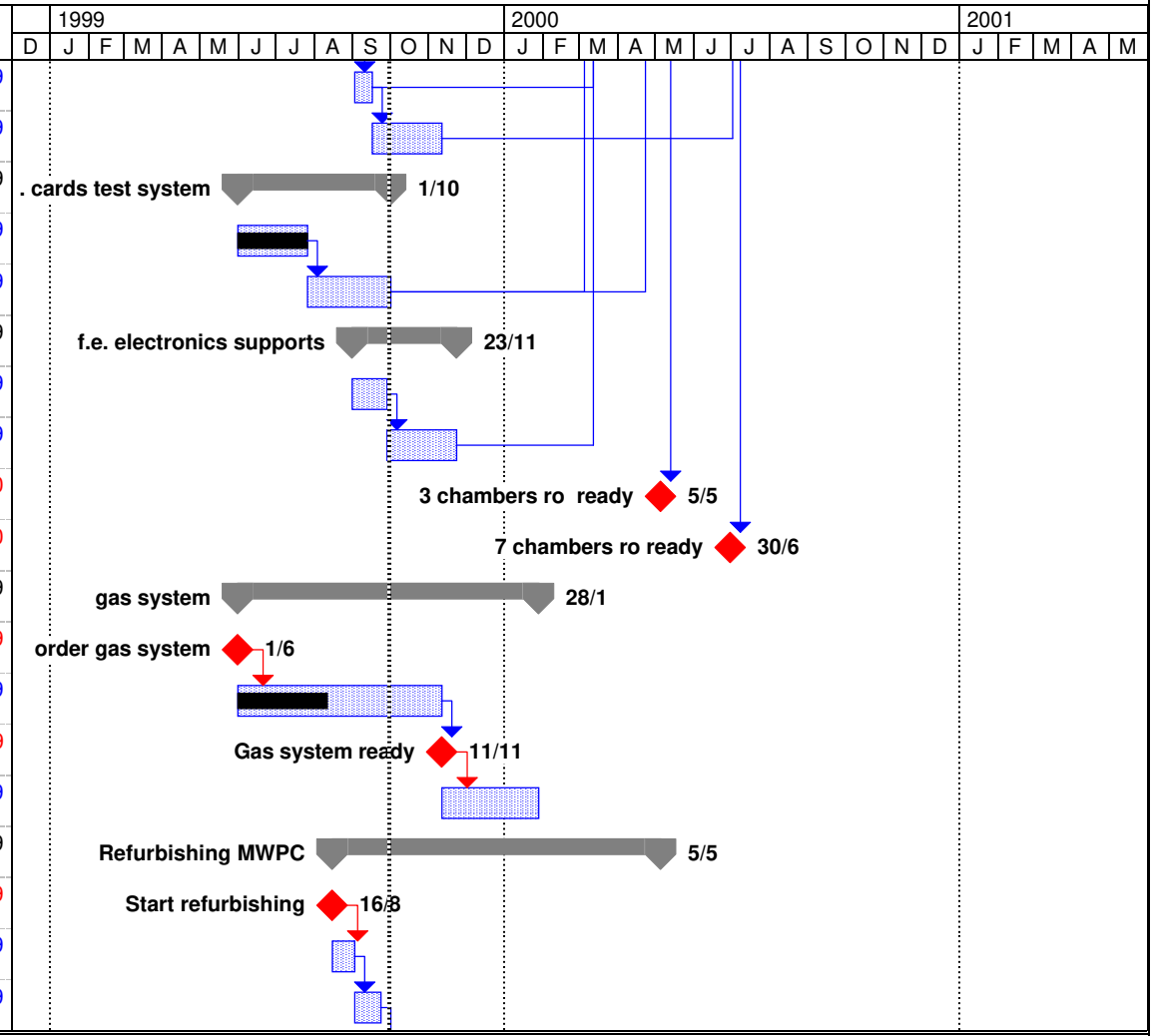
# Compass Spectrometer / CERN

Thu 30/9/99

| ID | Task Name | Duration | Start |
|---|---|---|---|
| 34 | prototype assembly (1ch | 2 wks | Fri 3/9/99 |
| 35 | order + full delivery | 8 wks | Fri 17/9/99 |
| 36 | f.e. cards test system | 80 days | Tue 1/6/99 |
| 37 | design & costr. VME boa | 8 wks | Tue 1/6/99 |
| 38 | OS9+PAW test software | 8 wks | Tue 27/7/99 |
| 39 | f.e. electronics supports | 60 days | Wed 1/9/99 |
| 40 | design | 4 wks | Wed 1/9/99 |
| 41 | construction | 8 wks | Wed 29/9/99 |
| 42 | 3 chambers ro ready | 0 days | Fri 5/5/00 |
| 43 | 7 chambers ro ready | 0 days | Fri 30/6/00 |
| 44 | gas system | 154 days | Tue 1/6/99 |
| 45 | order gas system | 0 days | Tue 1/6/99 |
| 46 | productiom | 109 days | Tue 1/6/99 |
| 47 | Gas system ready | 0 days | Thu 11/11/99 |
| 48 | installations | 9 wks | Fri 12/11/99 |
| 49 | Refurbishing MWPC | 175 days | Mon 16/8/99 |
| 50 | Start refurbishing | 0 days | Mon 16/8/99 |
| 51 | finish 1 chamber | 2 wks | Mon 16/8/99 |
| 52 | chamber 2 | 3 wks | Fri 3/9/99 |

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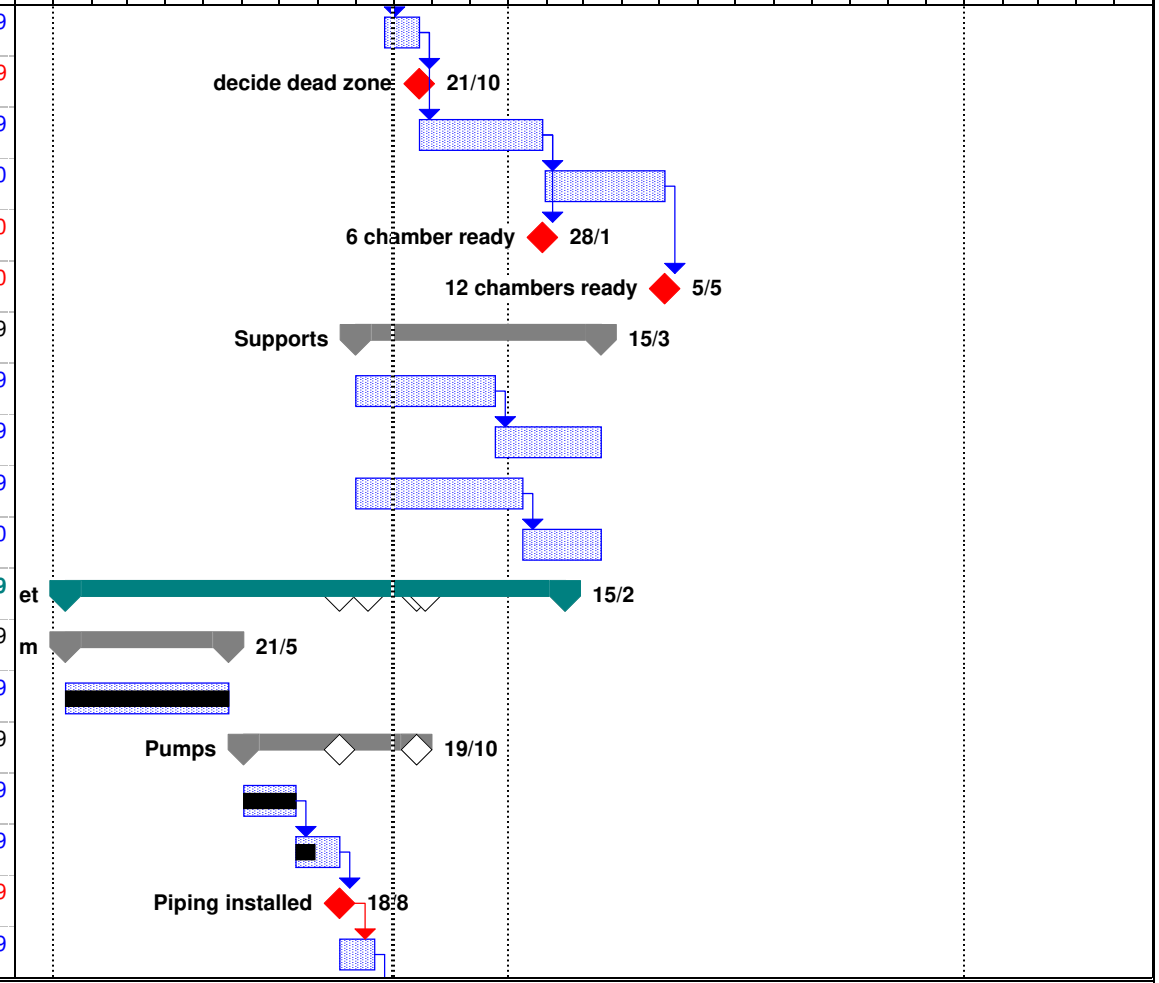
# Compass Spectrometer / CERN

Thu 30/9/99

| ID | Task Name | Duration | Start |
|---|---|---|---|
| 53 | test beam | 4 wks | Fri 24/9/99 |
| 54 | decide dead zone | 0 days | Thu 21/10/99 |
| 55 | refurbishing (4 ch) | 12 wks | Fri 22/10/99 |
| 56 | refurbishing (6 ch) | 14 wks | Mon 31/1/00 |
| 57 | 6 chamber ready | 0 days | Fri 28/1/00 |
| 58 | 12 chambers ready | 0 days | Fri 5/5/00 |
| 59 | Supports | 130 days | Wed 1/9/99 |
| 60 | support design | 80 days | Wed 1/9/99 |
| 61 | support production | 10 wks | Wed 22/12/99 |
| 62 | allignment system design | 17 wks | Wed 1/9/99 |
| 63 | alignment system production | 9 wks | Thu 13/1/00 |
| 16 | **Polarised target** | **272 days** | **Mon 11/1/99** |
| 1 | Platform | 95 days | Mon 11/1/99 |
| 2 | Platform | 19 wks | Mon 11/1/99 |
| 3 | Pumps | 99 days | Thu 3/6/99 |
| 4 | Planning pumping system | 6 wks | Thu 3/6/99 |
| 5 | Construction & leaktesting | 25 days | Thu 15/7/99 |
| 6 | Piping installed | 0 days | Wed 18/8/99 |
| 7 | Electrical cabling of pumps | 20 days | Thu 19/8/99 |

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# Compass Spectrometer / CERN

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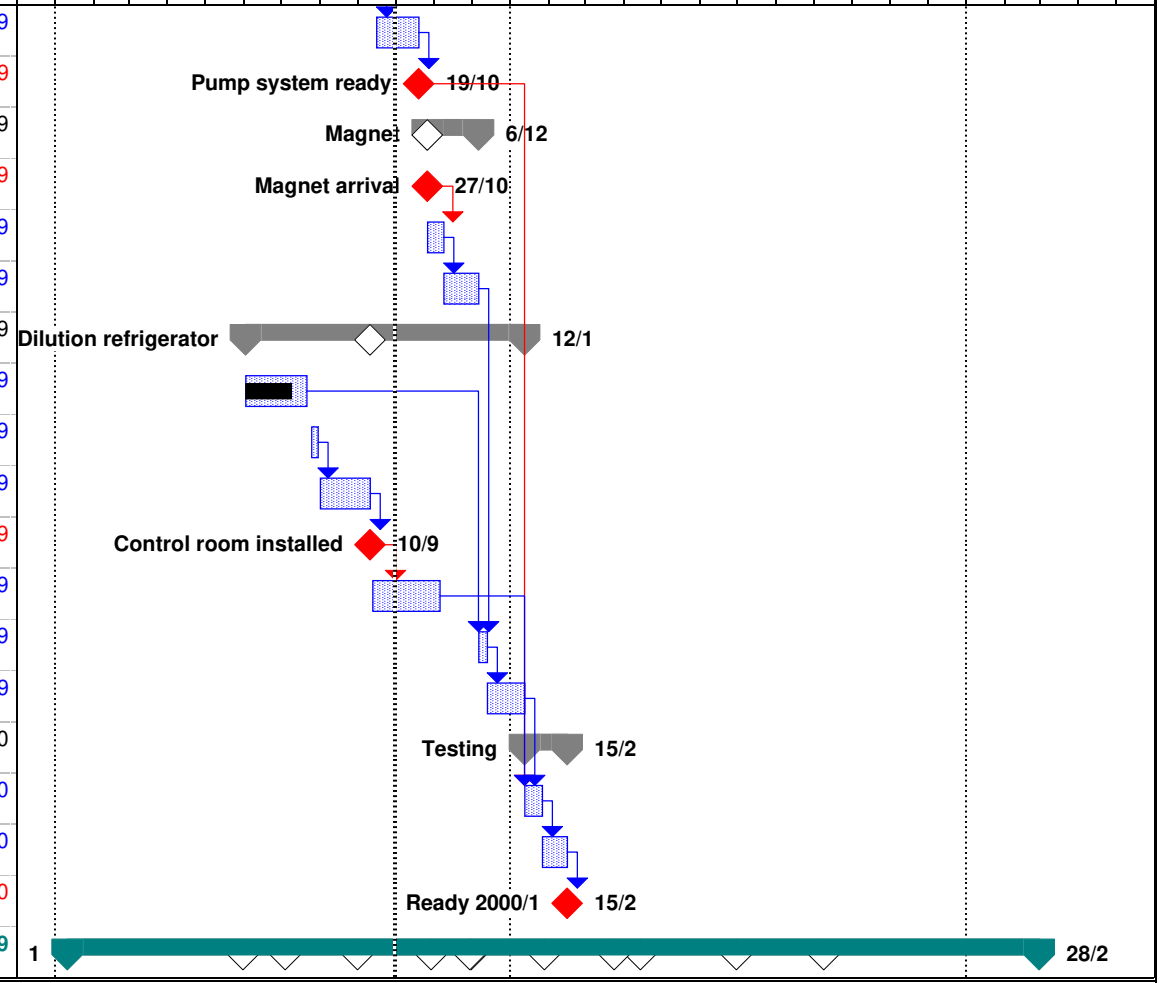
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 8 | Vacuum connections of pump | 24 days | Thu 16/9/99 |
| 9 | Pump system ready | 0 days | Tue 19/10/99 |
| 10 | Magnet | 29 days | Wed 27/10/99 |
| 11 | Magnet arrival | 0 days | Wed 27/10/99 |
| 12 | Setup of Magnet | 9 days | Wed 27/10/99 |
| 13 | Magnet Test | 4 wks | Tue 9/11/99 |
| 14 | Dilution refrigerator | 145 days | Thu 3/6/99 |
| 15 | Building target Holder | 35 days | Thu 3/6/99 |
| 16 | Control room racks | 5 days | Mon 26/7/99 |
| 17 | Target Cabling | 30 days | Mon 2/8/99 |
| 18 | Control room installed | 0 days | Fri 10/9/99 |
| 19 | Control Software | 40 days | Mon 13/9/99 |
| 20 | Installing cryostat | 5 days | Tue 7/12/99 |
| 21 | Cryostat cabling | 7 days | Tue 14/12/99 |
| 22 | Testing | 24 days | Thu 13/1/00 |
| 23 | Cryo test | 10 days | Thu 13/1/00 |
| 24 | Test with material | 14 days | Thu 27/1/00 |
| 25 | Ready 2000/1 | 0 days | Tue 15/2/00 |
| 17 | **Rich1** | **528 days** | **Mon 11/1/99** |

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# Compass Spectrometer / CERN

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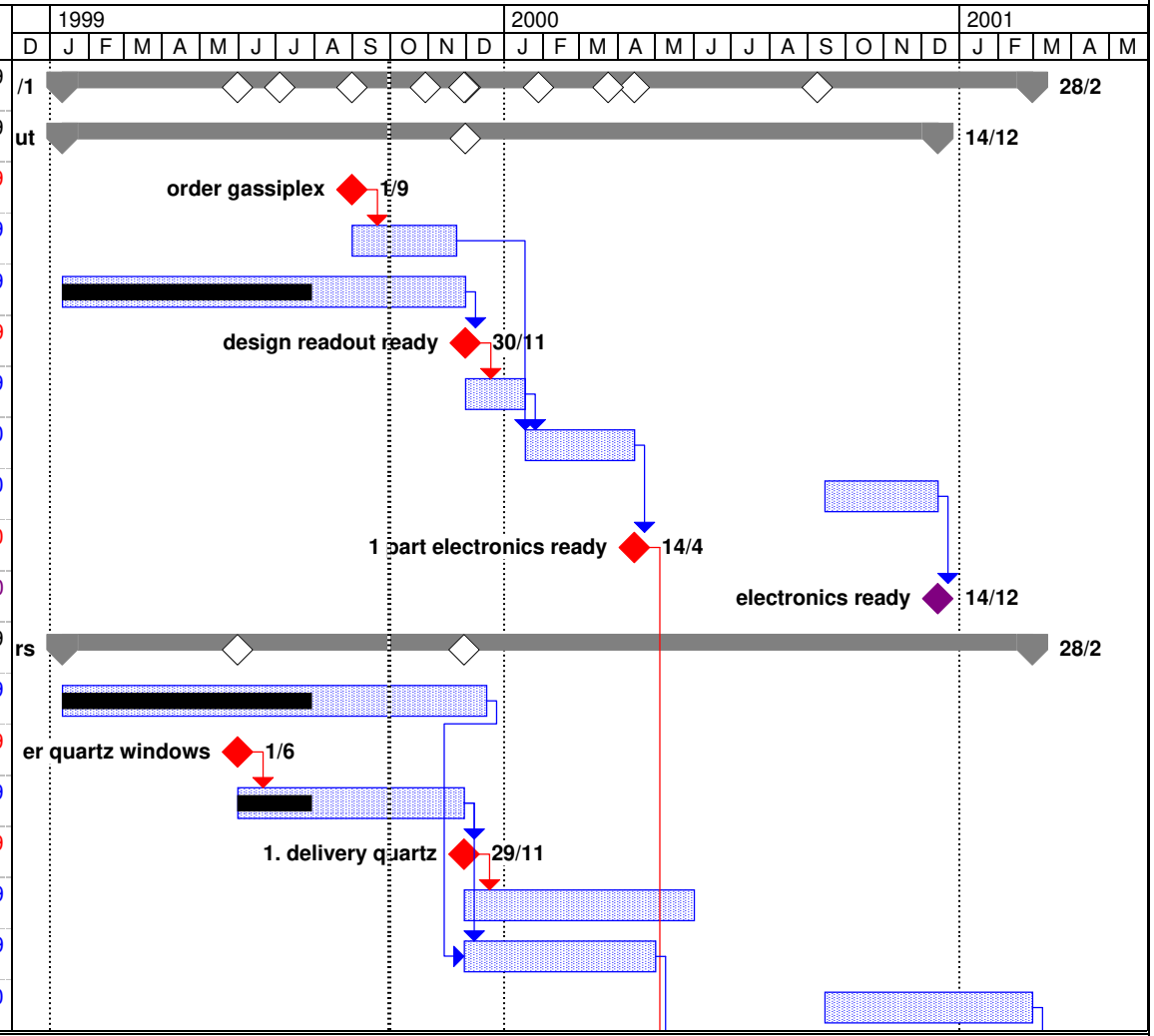
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 1 | Rich 2000/1 | 528 days | Mon 11/1/99 |
| 2 | Readout | 489 days | Mon 11/1/99 |
| 3 | order gassiplex | 0 days | Wed 1/9/99 |
| 4 | gassiplex production | 12 wks | Wed 1/9/99 |
| 5 | Design & tests | 232 days | Mon 11/1/99 |
| 6 | design readout ready | 0 days | Tue 30/11/99 |
| 7 | PCB 1 part | 19 days | Wed 1/12/99 |
| 8 | construction & debug 1 p | 64 days | Tue 18/1/00 |
| 9 | construction & debug 2 h | 13 wks | Fri 15/9/00 |
| 10 | 1 part electronics ready | 0 days | Fri 14/4/00 |
| 11 | electronics ready | 0 days | Thu 14/12/00 |
| 12 | Photon detectors | 528 days | Mon 11/1/99 |
| 13 | construction | 245 days | Mon 11/1/99 |
| 14 | order quartz windows | 0 days | Tue 1/6/99 |
| 15 | quartz windows 1 half | 26 wks | Tue 1/6/99 |
| 16 | 1. delivery quartz | 0 days | Mon 29/11/99 |
| 17 | quartz windows 2 half | 118 days | Tue 30/11/99 |
| 18 | chamber assembly 1 hal | 19 wks | Tue 30/11/99 |
| 19 | chamber assembly 2 hal | 104 days | Fri 15/9/00 |

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# Compass Spectrometer / CERN

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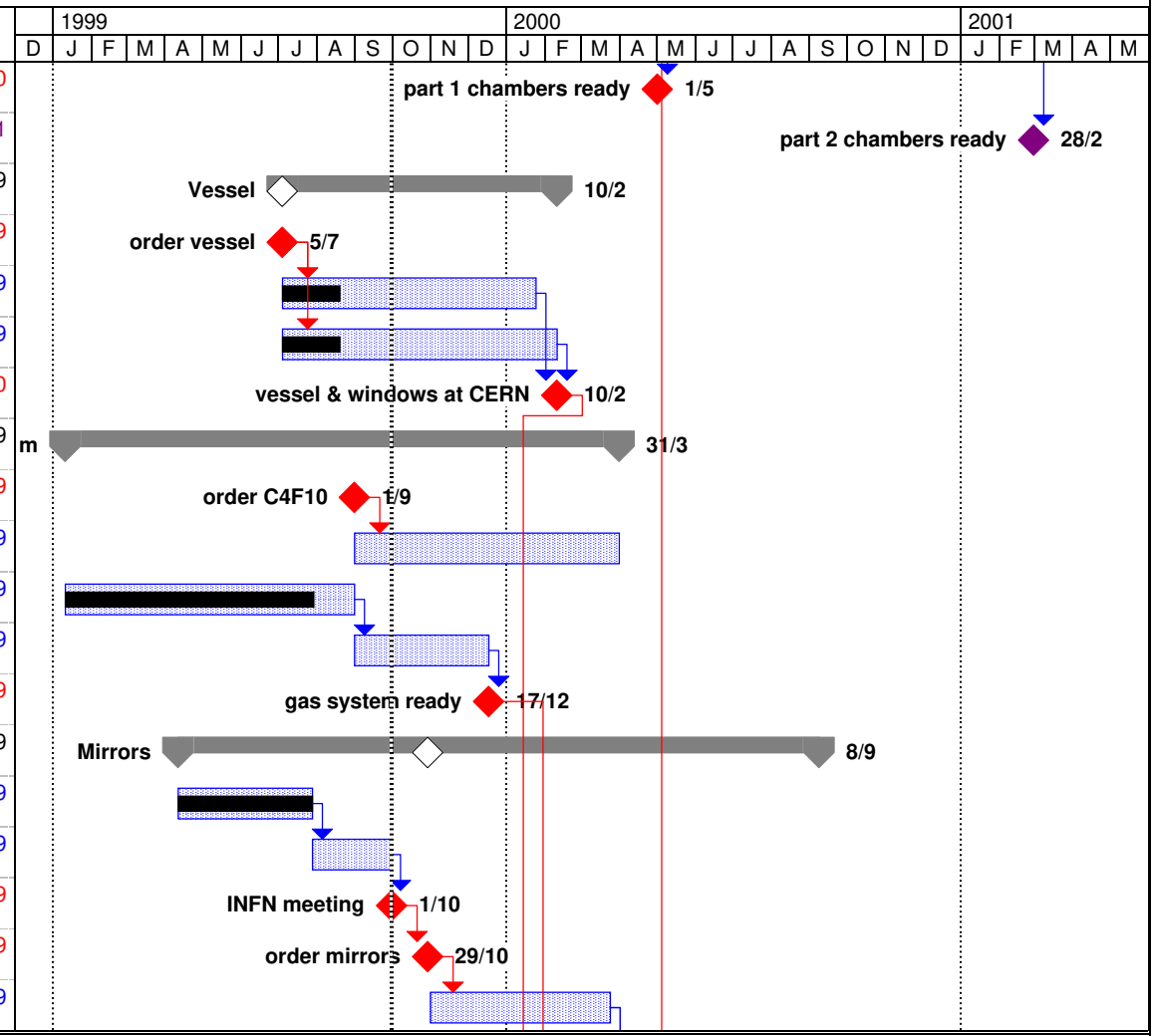
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 20 | part 1 chambers ready | 0 days | Mon 1/5/00 |
| 21 | part 2 chambers ready | 0 days | Wed 28/2/01 |
| 22 | Vessel | 144 days | Mon 5/7/99 |
| 23 | order vessel | 0 days | Mon 5/7/99 |
| 24 | construction vessel | 131 days | Mon 5/7/99 |
| 25 | construction windows | 144 days | Mon 5/7/99 |
| 26 | vessel & windows at CE | 0 days | Thu 10/2/00 |
| 27 | Gas system | 305 days | Mon 11/1/99 |
| 28 | order C4F10 | 0 days | Wed 1/9/99 |
| 29 | C4F10 | 138 days | Wed 1/9/99 |
| 30 | construction | 167 days | Mon 11/1/99 |
| 31 | commissioning | 78 days | Wed 1/9/99 |
| 32 | gas system ready | 0 days | Fri 17/12/99 |
| 33 | Mirrors | 355 days | Mon 12/4/99 |
| 34 | call for tender | 78 days | Mon 12/4/99 |
| 35 | select company | 9 wks | Thu 29/7/99 |
| 36 | INFN meeting | 0 days | Fri 1/10/99 |
| 37 | order mirrors | 0 days | Fri 29/10/99 |
| 38 | construction 1 part | 18 wks | Mon 1/11/99 |

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# Compass Spectrometer / CERN

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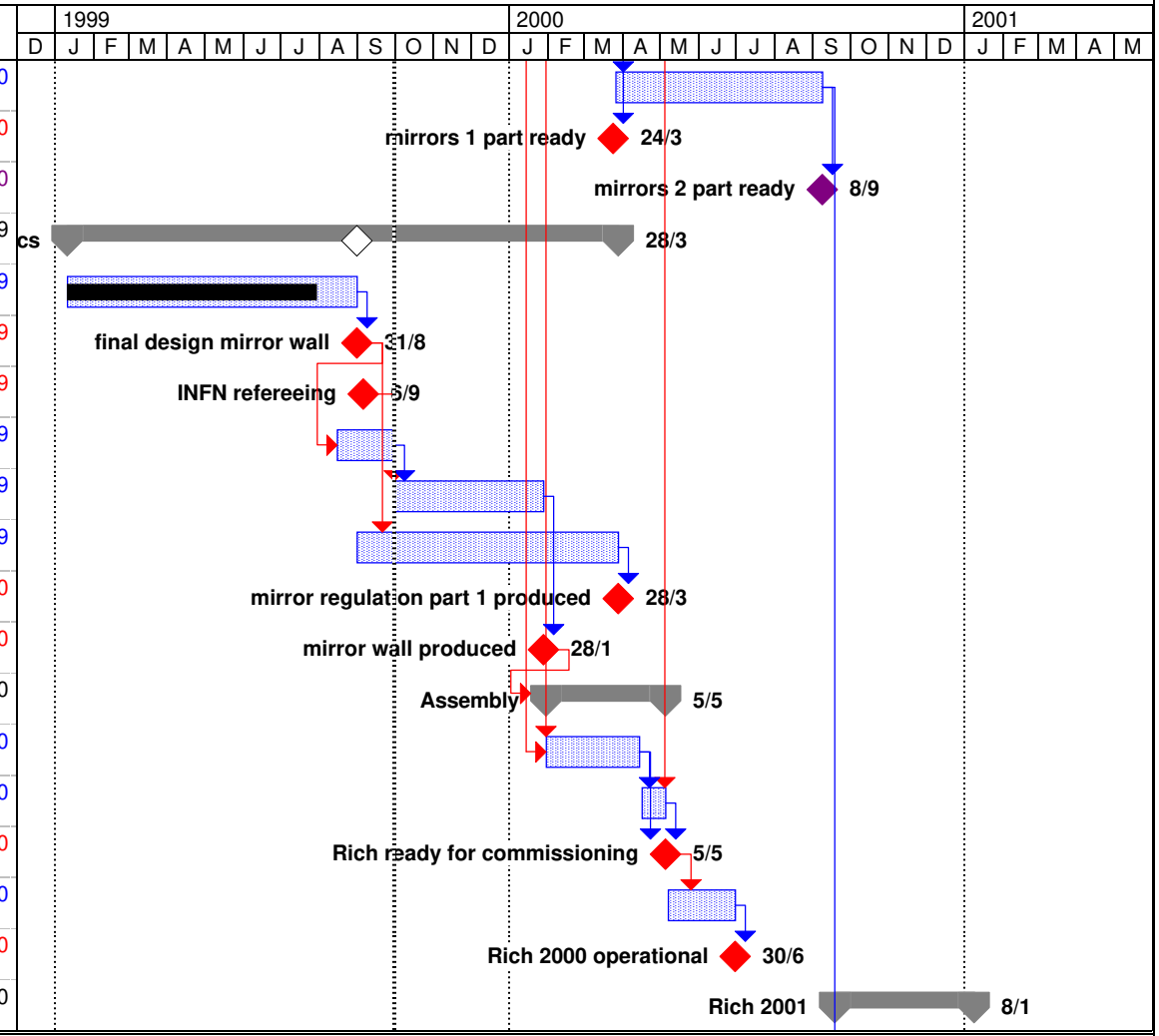
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 39 | construction 2 half | 24 wks | Mon 27/3/00 |
| 40 | mirrors 1 part ready | 0 days | Fri 24/3/00 |
| 41 | mirrors 2 part ready | 0 days | Fri 8/9/00 |
| 42 | Mirror mechanics | 302 days | Mon 11/1/99 |
| 43 | mirror wall design | 167 days | Mon 11/1/99 |
| 44 | final design mirror wall | 0 days | Tue 31/8/99 |
| 45 | INFN refereeing | 0 days | Mon 6/9/99 |
| 46 | tender for mirror wall | 34 days | Mon 16/8/99 |
| 47 | production mirror wall | 71 days | Fri 1/10/99 |
| 48 | mirror regulation | 27 wks | Wed 1/9/99 |
| 49 | mirror regulation part 1 produ | 0 days | Tue 28/3/00 |
| 50 | mirror wall produced | 0 days | Fri 28/1/00 |
| 51 | Assembly | 70 days | Mon 31/1/00 |
| 52 | vessel and mirror wall as | 11 wks | Mon 31/1/00 |
| 53 | mount mirrors part 1 | 3 wks | Mon 17/4/00 |
| 54 | Rich ready for commissioning | 0 days | Fri 5/5/00 |
| 55 | gas purification and comissioning | 8 wks | Mon 8/5/00 |
| 56 | Rich 2000 operational | 0 days | Fri 30/6/00 |
| 57 | Rich 2001 | 65 days | Mon 18/9/00 |

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# Compass Spectrometer / CERN

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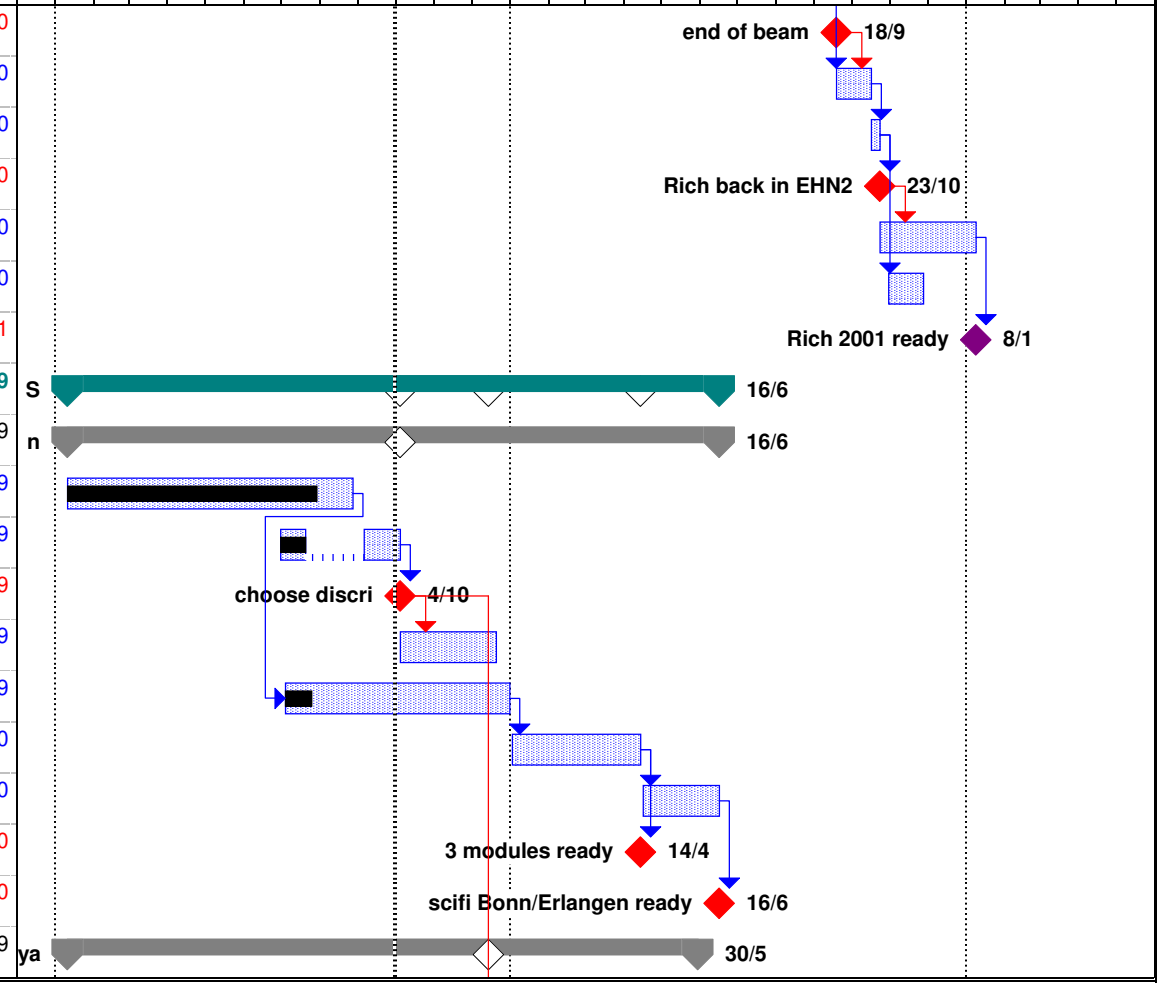
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 58 | end of beam | 0 days | Mon 18/9/00 |
| 59 | mirror assembly 2 half | 4 wks | Tue 19/9/00 |
| 60 | 2nd Assembly | 1 wk | Tue 17/10/00 |
| 61 | Rich back in EHN2 | 0 days | Mon 23/10/00 |
| 62 | gas purification and comissio | 8 wks | Tue 24/10/00 |
| 63 | tent | 4 wks | Tue 31/10/00 |
| 64 | Rich 2001 ready | 0 days | Mon 8/1/01 |
| 18 | **Scintillating fibre hodoscopes / COM** | **375 days** | **Mon 11/1/99** |
| 1 | Bonn / Erlangen | 375 days | Mon 11/1/99 |
| 2 | R & D | 33 wks | Mon 11/1/99 |
| 3 | Beam test M2 | 7 wks | Thu 1/7/99 |
| 4 | choose discri | 0 days | Mon 4/10/99 |
| 5 | produce discriminators | 11 wks | Tue 5/10/99 |
| 6 | production module 1 | 26 wks | Mon 5/7/99 |
| 7 | production module 2&3 | 15 wks | Mon 3/1/00 |
| 8 | last module | 9 wks | Mon 17/4/00 |
| 9 | 3 modules ready | 0 days | Fri 14/4/00 |
| 10 | scifi Bonn/Erlangen ready | 0 days | Fri 16/6/00 |
| 11 | Nagoya | 362 days | Mon 11/1/99 |

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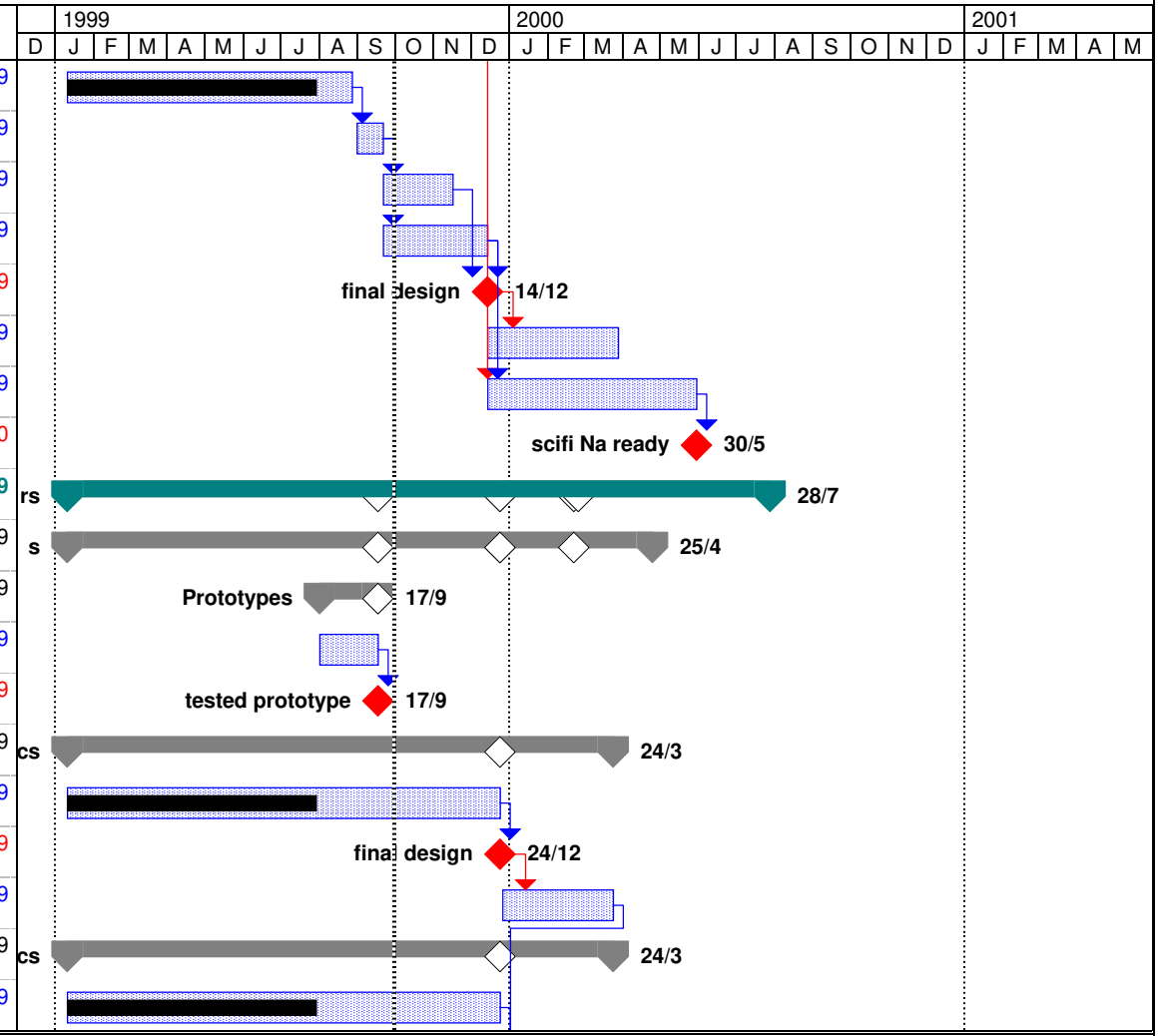
| ID | Task Name | Duration | Start |
|---|---|---|---|
| 12 | R & D | 33 wks | Mon 11/1/99 |
| 13 | Beam test M2 | 3 wks | Wed 1/9/99 |
| 14 | final design hodos | 8 wks | Wed 22/9/99 |
| 15 | final design discri | 12 wks | Wed 22/9/99 |
| 16 | final design | 0 days | Tue 14/12/99 |
| 17 | production hodos | 15 wks | Wed 15/12/99 |
| 18 | production discri | 24 wks | Wed 15/12/99 |
| 19 | scifi Na ready | 0 days | Tue 30/5/00 |
| 19 | **Silicon detectors** | **405 days** | **Mon 11/1/99** |
| 1 | beam stations | 336.25 days | Mon 11/1/99 |
| 2 | Prototypes | 35 days | Mon 2/8/99 |
| 3 | Protoype tests | 7 wks | Mon 2/8/99 |
| 4 | tested prototype | 0 days | Fri 17/9/99 |
| 5 | Mechanics | 315 days | Mon 11/1/99 |
| 6 | design | 50 wks | Mon 11/1/99 |
| 7 | final design | 0 days | Fri 24/12/99 |
| 8 | construction | 13 wks | Mon 27/12/99 |
| 9 | Electronics | 315 days | Mon 11/1/99 |
| 10 | design | 50 wks | Mon 11/1/99 |




Project: Compass Spectrometer
Date: Mon 2/8/99
Co-ordinator: Gerhard Mallot /CERN

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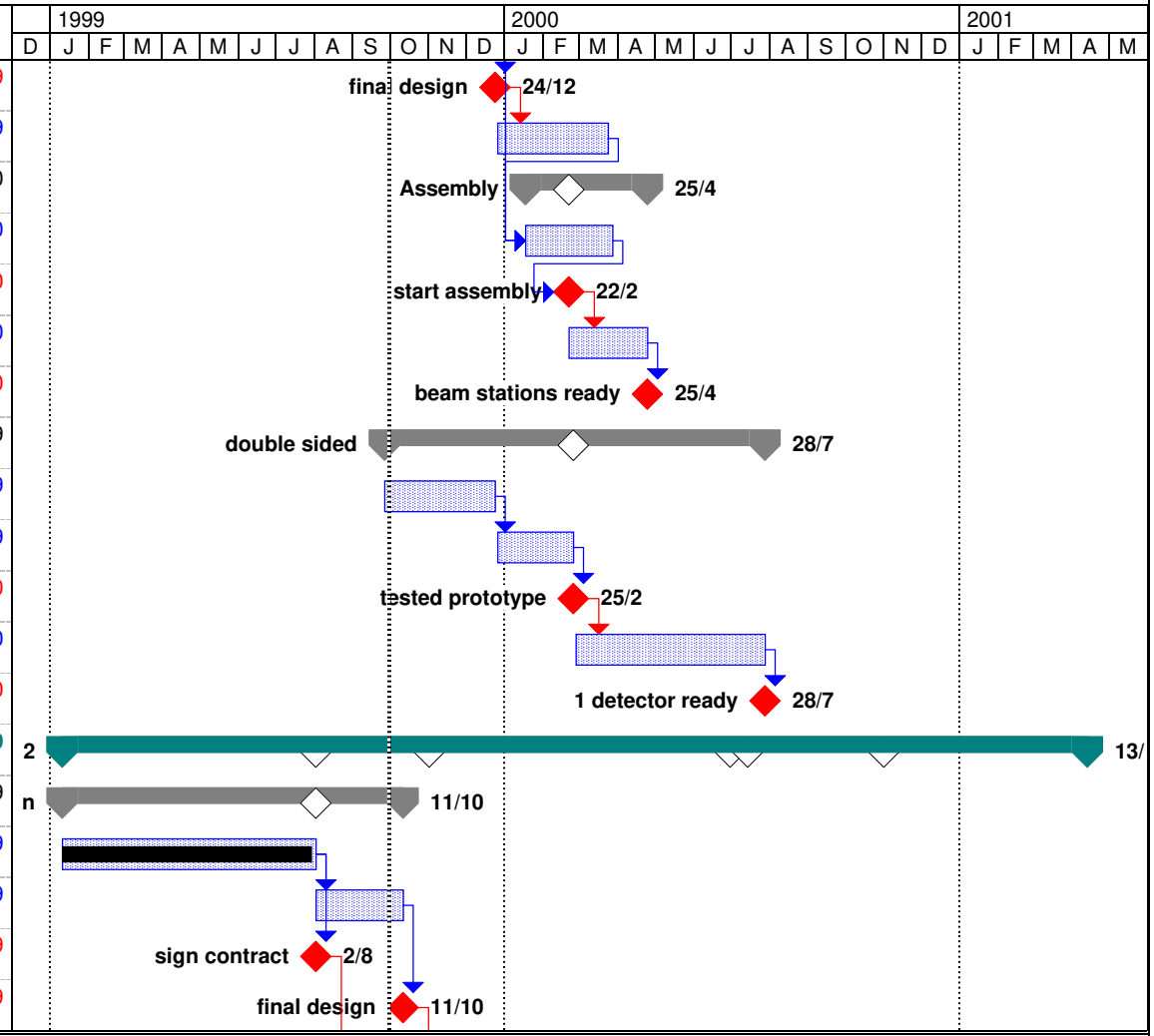
# Compass Spectrometer / CERN

Thu 30/9/99

| ID | Task Name | Duration | Start |
|---|---|---|---|
| 11 | final design | 0 days | Fri 24/12/99 |
| 12 | construction | 13 wks | Mon 27/12/99 |
| 13 | Assembly | 70 days | Tue 18/1/00 |
| 14 | bonding | 10 wks | Tue 18/1/00 |
| 15 | start assembly | 0 days | Tue 22/2/00 |
| 16 | assembly | 9 wks | Tue 22/2/00 |
| 17 | beam stations ready | 0 days | Tue 25/4/00 |
| 18 | double sided | 220 days | Mon 27/9/99 |
| 19 | development of boards | 13 wks | Mon 27/9/99 |
| 20 | tests | 9 wks | Mon 27/12/99 |
| 21 | tested prototype | 0 days | Fri 25/2/00 |
| 22 | construction | 22 wks | Mon 28/2/00 |
| 23 | 1 detector ready | 0 days | Fri 28/7/00 |
| 20 | **Straws TS2** | **579 days** | **Mon 11/1/99** |
| 1 | Design | 196 days | Mon 11/1/99 |
| 2 | Predesign | 146 days | Mon 11/1/99 |
| 3 | final design | 10 wks | Tue 3/8/99 |
| 4 | sign contract | 0 days | Mon 2/8/99 |
| 5 | final design | 0 days | Mon 11/10/99 |

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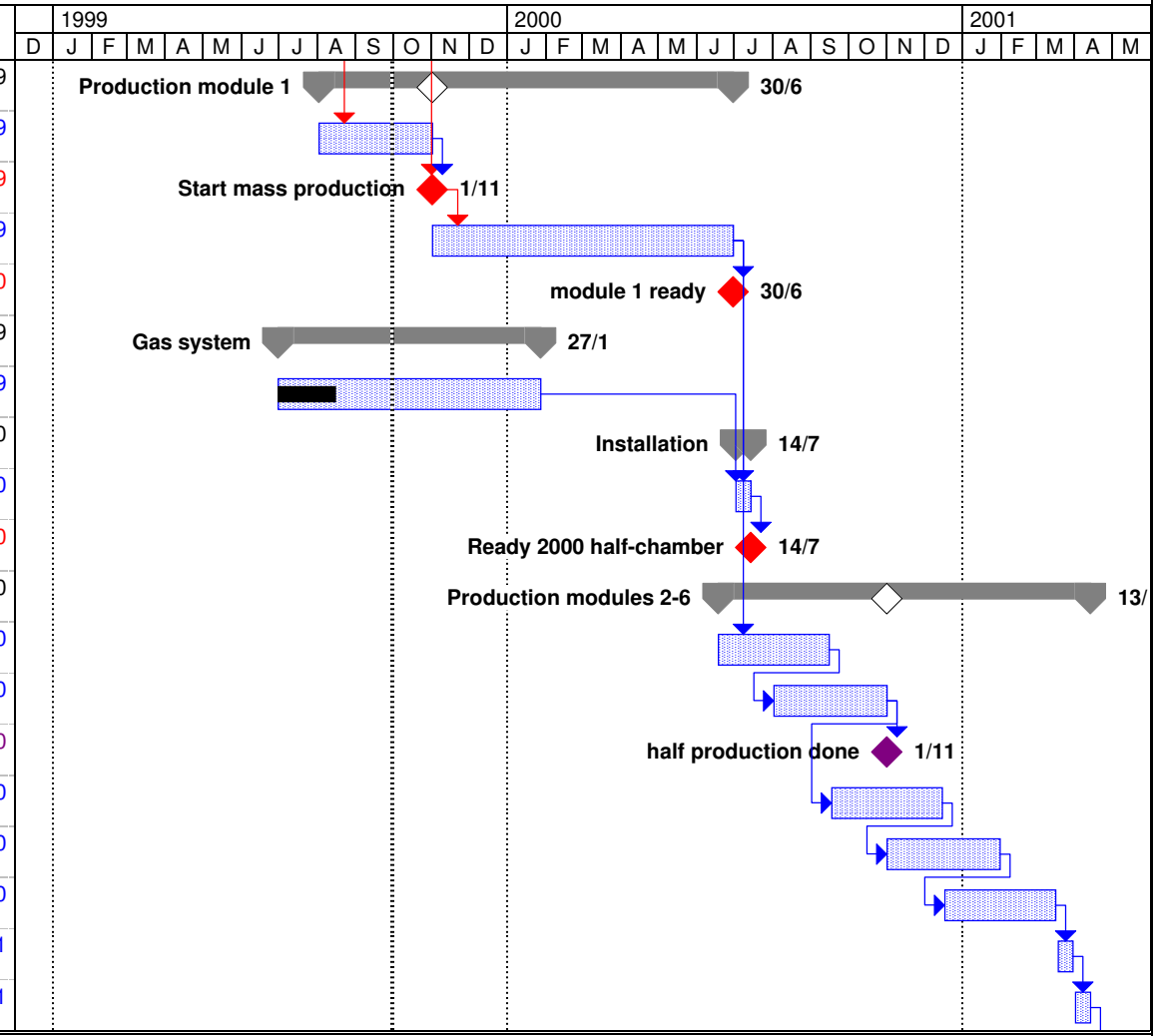
# Compass Spectrometer / CERN

Thu 30/9/99

| ID | Task Name | Duration | Start |
|---|---|---|---|
| 6 | Production module 1 | 228 days | Tue 3/8/99 |
| 7 | production set-up | 13 wks | Tue 3/8/99 |
| 8 | Start mass production | 0 days | Mon 1/11/99 |
| 9 | module 1 | 163 days | Tue 2/11/99 |
| 10 | module 1 ready | 0 days | Fri 30/6/00 |
| 11 | Gas system | 140 days | Thu 1/7/99 |
| 12 | Gas and HV | 28 wks | Thu 1/7/99 |
| 13 | Installation | 10 days | Mon 3/7/00 |
| 14 | Installation | 2 wks | Mon 3/7/00 |
| 15 | Ready 2000 half-chamber | 0 days | Fri 14/7/00 |
| 16 | Production modules 2-6 | 215 days | Mon 19/6/00 |
| 17 | module 2 | 13 wks | Mon 19/6/00 |
| 18 | module 3 | 13 wks | Wed 2/8/00 |
| 19 | half production done | 0 days | Wed 1/11/00 |
| 20 | module 4 | 13 wks | Mon 18/9/00 |
| 21 | module 5 | 13 wks | Wed 1/11/00 |
| 22 | module 6 | 13 wks | Mon 18/12/00 |
| 23 | delivery | 2 wks | Mon 19/3/01 |
| 24 | Installation | 2 wks | Mon 2/4/01 |

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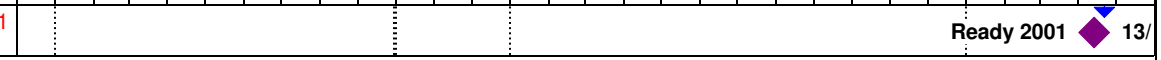
# Compass Spectrometer / CERN

Thu 30/9/99

| ID | Task Name | Duration | Start |
|---|---|---|---|
| 25 | Ready 2001 | 0 days | Fri 13/4/01 |

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