

Geant4 Resources

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Version 0.1

For Geant4 Delta Review, Oct 2002

Resource review 2002

- Estimated resources of 1st half 2002 in FTE
 - Undertaken Aug 2002
- Estimates requested
 - Total resource estimate
 - Resources for User support activities

Note: 'User support' are counted in 'Total'

FTE=full-time equivalent, ie 100% = 1 person full time

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Working Group	FTE	FTE	Est.
	in 2002	support	mid-2001
Low Energy EM WG (includ. adv ex)	9.7	4.2	12.0
Hadronic Physics WG	8.2	1.5	8.0
Geometry and Transportation WG	3.8	0.6	3.0
Electromagnetic Phys (Std)	3.2	2.0	3.0
User and Category Interfaces	2.6	0.2	2.8
System Testing and QA	1.9	0.7	2.7
TSB Coordination	1.4	0.4	1.2
Vizualisation	1.2	0.4	3.4
Software Management	1.0	0.4	0.7
Documentation Mng WG	0.5	0.2	0.1
Persistency	0.5	0.1	0.3
Run, Event and Detector Response	0.5	0.3	1.2
Particles and Track WG	0.3	0.1	0.6
Tracking WG	0.3	0.2	0.2
Generic Processes and Fast Smulation	0.1	0.1	0.5
<i>Estimated total FTE</i>	35.1	11.3	39.7
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Observations

- **User support** is taking a significant fraction (over 30%) of the collaboration effort
 - This is likely increasing
 - Users workshops, tutorials
 - User Forum volume
- Turnover is not negligible
 - Primarily young people
- Some areas remain understaffed
 - Quality Assurance
 - Front-line support for hadronic physics

Potential concerns

- The level of effort in user support is expected to continue to grow
 - It will become increasingly harder to maintain a balance between necessary development and support.
- Given the distributed nature of some resources
 - At times parts of the collaboration are unable to contribute in an optimal/effective manner
 - eg Rose licenses for design creation/maintenance.