

GPPC 2013 Results



UNIVERSITY *of*
DENVER

General Stats

132 maps

1,740,660 pathfinding problems

~~5 entrants~~

3 entrants + 1

<http://code.google.com/p/gppc-2013/>

Metrics

Total Time	Time to solve all problems.
Total Len.	Total length of all solutions.
Subopt.	Ratio of solution length to optimal.
Memory	Memory usage after computation.
Time/Step	Maximum time producing one path segment.
20 Moves	Time to produce first 20 moves of path.

Entrants

- **Ken Anderson**, Fortinet Technologies
 - “Team Anderson”
- **Tomas Novella**, Charles University
 - “NovellA*”
- **Tansel Uras, Sven Koenig, Carlos Hernandez**, USC & Universidad Catolica De La Santisima Concepcion
 - “Chaski-Chile-US”
- **Anonymous**
- **Anonymous**

Sum of metrics

	Subgoal Graph					
	Anderson	Novella* (3 maps + 1 error)	Fast	Optimal (5 maps w/errors)	Memory	DAO-1 (9 maps too big)
Total Time	50.9	117,227.0	1,875.2	2,003.4	2,485.0	9,772
Total Len.	4.46E+09	3.69E+09	3.64E+09	3.64E+09	3.64E+09	2.83E+09
Subopt.	3,766,860	1,708,830	1,739,330	1,738,890	1,739,340	1,489,910
Memory	6,595,596	10,458,632	6,077,360	5,678,188	5,406,852	4,640,548
Time/Step	50.9	117,227.0	1,875.2	2,003.4	2,485.0	9,771.6
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GPPC Future

- Open to feedback from community
 - Should this be a discrete event or a gradually built repository?
- Dynamic worlds
 - Costs of movement may change between planning instances.
 - Includes infinite costs (blocked)