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est_sptnl (343465 calls, 145.039 sec)

Generated 20-Sep-2010 19:02:54 using cpu time.






M-function in file E:\important_data\d.jadoogaran.org\parsanejad\sptnl\est_sptnl.m

[Copy to new window for comparing multiple runs]

Parents (calling functions)

Function Name	Function Type	Calls
eval_sptnl	M-function	343465

Lines where the most time was spent

Line Number	Code	Calls	Total Time	% Time	Time Plot
29	sch_start(act_successors)=max(...	3955171	54.521 s	37.6%	
24	act_successors=noteq_acts(pr(a...	7309062	28.536 s	19.7%	
32	end	7309062	25.514 s	17.6%	
31	end	3955171	8.645 s	6.0%	
26	if numel(act_successors)	7309062	7.410 s	5.1%	
All other lines			20.411 s	14.1%	
Totals			145.039 s	100%	

Children (called functions)

No children

M-Lint results

No M-Lint messages.

Coverage results

[Show coverage for parent directory]

Total lines in function	35
Non-code lines (comments, blank lines)	19
Code lines (lines that can run)	16
Code lines that did run	16
Code lines that did not run	0
Coverage (did run/can run)	100.00 %

Function listing

```

time  calls  line
      0.62 343465 10 function sch_start=est_sptnl(sptnl,act,start_act)
      0.49 343465 11 % EST_SPNTL computes Earliest Starting Time for Schedule with Positive and Negative Time-Lags
      1.12 343465 12 % version 2
      1.38 343465 13 % sptnl.n: number of tasks
      1.37 343465 14 % sptnl.noteq: Logical index show all activities with different Earliest and Latest Start times
      0.80 343465 15 % sptnl.prec: precedence constrains for positive and negative time lags
      0.29 343465 16 % sptnl.releasetime: Earliest Start Times
      0.44 392334 17 % sptnl.lag: schedule positive and negative time lags
      2.88 392334 18 % set initial start times = release times
      0.44 392334 19 sch_start = sptnl.releasetime;
      2.88 392334 20 sch_start(act) = start_act;
      28.54 7309062 21 % start time selected activity = given number between its releasetime and deadline
      7.41 7309062 22 % start time selected activity is equal to its releasetime
      8.65 3955171 23 noteq_acts=find(sptnl.noteq);
      25.51 7309062 24 pr=sptnl.prec(:,noteq_acts);
      2.70 392334 25 all_acts=1:sptnl.n-1;
      2.99 392334 26 % all unassigned activities. activities that thier start times was changed.
      0.29 343465 27 while numel(all_acts)
      0.44 392334 28 % until unassigned activity left
      2.88 392334 29 % schedule old starts before update final schedule starts
      28.54 7309062 30 for act=all_acts
      7.41 7309062 31 % find all successors of selected activity that ...
      8.65 3955171 32 % start times are not equal to releasetimes (start time(activity) ~= releasetime(activity))
      25.51 7309062 33 % noteq_successors=find(pr(act,:)=1);
      2.70 392334 34 act_successors=noteq_acts(pr(act,:)=1);
      2.99 392334 35 % if there are successors then update start times
      0.29 343465 36 if numel(act_successors)
      0.44 392334 37 % Lij=sptnl.lag(act,act_successors);
      2.88 392334 38 % Update schedule start times for successors with time lags
      28.54 7309062 39 sch_start(act_successors)=max([sch_start(act_successors);...
      7.41 7309062 40 sch_start(act)+ sptnl.lag(act,act_successors)],[],1);
      8.65 3955171 41 end
      25.51 7309062 42 end
      2.70 392334 43 % all unassigned activities. activities that thier start times was changed.
      2.99 392334 44 all_acts=find( old_start~=sch_start);
      2.99 392334 45 end

```