dmvgt (224 calls, 1.541 sec)

Generated 04-Nov-2015 13:12:36 using cpu time.
function in file C:\Users\aba228\Dropbox\MPHIL\VU\MitISEM\MyMit\include\dmvg
Copy to new window for comparing multiple runs

[Refresh]

☑ Show parent functions ☑ Show busy lines ☑ Show child functions
☑ Show Code Analyzer results ☑ Show file coverage ☑ Show function listing

Parents (calling functions)

Function Name	Function Type	Calls
MitISEM_new	function	62
fn_ISEM	function	100
fn_optimt	function	52
Mit_MH	function	10

Lines where the most time was spent

Line Number	Code	Calls	Total Time	% Time
25	`dens = dmvgt_mex(theta, mit.mu...`	224	1.539 s	99.9%
36	`end`	224	0 s	0%
24	`L = double(L);`	224	0 s	0%
All other lines			0.002 s	0.1%
Totals			1.541 s	100%

Children (called functions)

Function Name	Function Type	Calls	Total Time	% Time	Time Plot
dmvgt_mex	MEX-file	224	1.536 s	99.7%	▬▬▬
Self time (built-ins, overhead, etc.)			0.005 s	0.3%	
Totals			1.541 s	100%	

Code Analyzer results

Time Plot

No Code Analyzer messages.

Coverage results

Show coverage for parent directory

Total lines in function	36
Non-code lines (comments, blank lines)	33
Code lines (lines that can run)	3
Code lines that did run	3
Code lines that did not run	0
Coverage (did run/can run)	100.00 %

Function listing

Color highlight code according to time ▾

time	calls	line	
		1	function dens = dmvgt(theta, mit, L, GamMat)
		2	% density of a mixture of multivariate t dist
		3	% L (log) - return log-density values if L=tr
		4	% % MATLAB
		5	% [H,d] = size(mit.mu); % number of compc
		6	% [N,~] = size(theta);
		7	% dcoms = zeros(N,H);
		8	% for h = 1:H
		9	% mu_h = mit.mu(h,:);
		10	% Sigma_h = mit.Sigma(h,:);
		11	% Sigma_h = reshape(Sigma_h,d,d);
		12	% df_h = mit.df(h);
		13	% for ii = 1:N
		14	% dcoms(ii,h) = dmvt(theta(ii,:)
		15	% end
		16	% end
		17	% tmp = log(repmat(mit.p,N,1)) + log(dcon
		18	% dens = sum(exp(tmp),2);
		19	% if (L == true)
		20	% dens = log(dens);
		21	% end
		22	
		23	% % C-MEX
	224	24	L = double(L);
1.54	224	25	dens = dmvgt_mex(theta, mit.mu, mit.Sigm
		26	
		27	% % comparison of the MATLAB and C-MEX kernel
		28	% lnd_mex = dmvgt_mex(theta, mit.mu, mit.
		29	% fprintf('\n *** sum(abs(lnd_mex-lnd)> e

```
:ributions
:ue

nents, dimension of t distribution




), mu_h, Sigma_h, df_h, GamMat);



ns);








a, mit.df, mit.p, GamMat, L);

l evaluation functions
.Sigma, mit.df, mit.p, GamMat, 1);
eps)  = %6.4f ***\n', sum(abs(lnd_mex-dens)>eps) );
```

```matlab
30   %      fprintf(' *** sum(abs(lnd_mex-lnd)) = %
31   %      if (sum(abs(lnd_mex-dens)) > 1e-4 )
32   %          keyboard
33   %          [val, MM] = max(abs(lnd_mex-dens));
34   %      end
35
36   end
```

```
%16.14f ***\n\n', sum(abs(lnd_mex-dens)));


;   % lnd_mex(MM)-dens(MM)
```