convolve3full (Calls: 110000, Time: 1798.995 s)

Generated 05-May-2016 08:57:51 using performance time.
function in file
/Users/yves/Dropbox/stanford_dl_ex-master/multilayer_supervised/funcs/image/convolve3full.m
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
backprop	function	110000

Lines where the most time was spent

Line Number	Code	Calls	Total Time	% Time	Time Plot
27	`A2=cat(2,zeros(size(A2,1),size...`	15840000	526.363 s	29.3%	
26	`A2=cat(1,zeros(size(B,1)-size(...`	15840000	463.441 s	25.8%	
29	`C(i,j,:) = sum(sum(A2.*B,1),2)...`	15840000	445.900 s	24.8%	
25	`A2=A(i0:i1,j0:j1,:);`	15840000	321.735 s	17.9%	
21	`i1=min(i,size(A,1));`	15840000	19.871 s	1.1%	
All other lines			21.685 s	1.2%	
Totals			1798.995 s	100%	

Children (called functions)
No children

Code Analyzer results
No Code Analyzer messages.

Coverage results
Show coverage for parent directory

Total lines in function	33
Non-code lines (comments, blank lines)	15
Code lines (lines that can run)	18
Code lines that did run	18
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 C=convolve3full(A,B)
		2	
		3	% A a tensor of rank 3 whose two first dimensions are the im
		4	% B a tensor of rank 3 whose two first dimensions are the im
		5	% -> C a tensor whose two first dimensions are convolution i
		6	
		7	
		8	% compute delta(i-r+1,j-r+1) theta (r,s)
		9	
		10	% A=cat(2,zeros(size(A,1),size(B,2)-1,size(A,3)),A);
		11	
0.36	110000	12	imax = size(A,1)+size(B,1)-1;
0.23	110000	13	jmax = size(A,2)+size(B,2)-1;
0.12	110000	14	R = size(B,1);
0.11	110000	15	S = size(B,2);
		16	
3.05	110000	17	C=zeros(imax,jmax,size(B,3));
0.03	110000	18	for i=1:imax
0.19	1320000	19	for j=1:jmax
1.30	15840000	20	i0=max(i-R+1,1);
19.87	15840000	21	i1=min(i,size(A,1));
1.08	15840000	22	j0=max(j-S+1,1);
12.83	15840000	23	j1=min(j,size(A,2));
		24	%printf('values i0 %d i1 %d - j0 %d j1 %d\n',i0,i1,j0,j1)
321.74	15840000	25	A2=A(i0:i1,j0:j1,:);
463.44	15840000	26	A2=cat(1,zeros(size(B,1)-size(A2,1),size(A2,2),size(A2,3)
526.36	15840000	27	A2=cat(2,zeros(size(A2,1),size(B,2)-size(A2,2),size(A2,3)
		28	%whos ac
445.90	15840000	29	C(i,j,:) = sum(sum(A2.*B,1),2);
1.37	15840000	30	end%for
0.20	1320000	31	end%for
		32	
0.41	110000	33	end%function

Other subfunctions in this file are not included in this listing.

```
nage dimensions
nage dimensions
images

);

)),A2);
)),A2);
```