

## convolve3 (Calls: 227460, Time: 1048.047 s)

Generated 05-May-2016 09:03:47 using performance time.

function in file

[/Users/yves/Dropbox/stanford\\_dl\\_ex-master/multilayer\\_supervised/funcs/image/convolve3.m](/Users/yves/Dropbox/stanford_dl_ex-master/multilayer_supervised/funcs/image/convolve3.m)

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☒ Show Code Analyzer results    ☒ Show file coverage    ☒ Show function listing

### Parents (calling functions)

Function Name	Function Type	Calls
<a href="#">prediction</a>	function	115260
<a href="#">backprop</a>	function	112200

### Lines where the most time was spent

Line Number	Code	Calls	Total Time	% Time	Time Plot
<a href="#">15</a>	C(i,j,:) = sum(sum(A(i:i+size(...	11338760	1036.868 s	98.9%	
<a href="#">12</a>	C=zeros(imax,jmax,size(B,3));	227460	3.741 s	0.4%	
<a href="#">20</a>	end%function	227460	2.951 s	0.3%	
<a href="#">16</a>	end%for	11338760	1.055 s	0.1%	
<a href="#">9</a>	imax = size(A,1)-size(B,1)+1;	227460	0.961 s	0.1%	
All other lines			2.470 s	0.2%	
Totals			1048.047 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	20
Non-code lines (comments, blank lines)	11
Code lines (lines that can run)	9
Code lines that did run	9
Code lines that did not run	0
Coverage (did run/can run)	100.00 %

image dimensions  
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images

. \*B, 1), 2);

## Function listing

Color highlight code according to

time



time	Calls	line	
		1	function C=convolve3(A,B)
		2	
		3	% A a tensor of rank 3 whose two first dimensions are the i
		4	% B a tensor of rank 3 whose two first dimensions are the j
		5	% -> C a tensor whose two first dimensions are convolution
		6	
		7	%B=rot90(B,2);
		8	
0.96	227460	<u>9</u>	imax = size(A,1)-size(B,1)+1;
0.47	227460	<u>10</u>	jmax = size(A,2)-size(B,2)+1;
		11	
3.74	227460	<u>12</u>	C=zeros(imax,jmax,size(B,3));
0.06	227460	<u>13</u>	for i=1:imax
0.24	1519240	<u>14</u>	for j=1:jmax
1036.87	11338760	<u>15</u>	C(i,j,:) = sum(sum(A(i:i+size(B,1)-1,j:j+size(B,2)-1,:)).
1.06	11338760	<u>16</u>	end%for
0.18	1519240	<u>17</u>	end%for
		18	
		19	
2.95	227460	<u>20</u>	end%function