

Image Processing Toolbox Supported Functions

Function	Generates standalone C code (any target)	Generates standalone C code using platform-specific shared library (applies when hardware is set to 'MATLAB Host Computer')	Supports MATLAB function block	Requires dynamic memory allocation support	Requires enabling variable sizing support	Comments/limitations
affine2d	14a	NA	Yes	No	No	
bwareaopen	15b	NA	No	Yes	Yes	
bwdist	No	14b	Yes	No	No	
bweuler	15a	15a	Yes	No	Yes	
bwlabel	15a	NA	No	Yes	Yes	
bwlookup	14b	12b	Yes	No	Yes	
bwmorph	14b	12b	No*	No	No	
bwpack	No	14a	Yes	No	No	
bwperim	15a	15a	Yes	No	Yes	
bwselect	15a	14a	Yes	No	Yes	
bwtraceboundary	14b	NA	No	Yes	Yes	
bwunpack	No	14a	Yes*	No*	No*	* Dynamic memory allocation is not required provided M is a compile-time constant.
conndef	13a	NA	Yes	No	No	
edge	15a	14a	Yes*	No*	Yes	* Dynamic memory allocation is not required provided THRESH and SIGMA are compile-time constants.
fitgeotrans	14b	NA	Yes	No	No	
fspecial	Pre-12b%	NA	Yes*	No*	Yes	* Dynamic memory allocation is not required provided HSIZE, RADIUS, LEN and THETA are compile-time constants. Prior to 14b, this function generated constant-folded C code. In 14b, the function

						started generating C code.
getrangefromclass	14a	NA	Yes	No	No	
grayconnected			No			
histeq	15b	14b	Yes*	No*	No*	* Dynamic memory allocation and variable-sizing support are not required provided N is a compile-time constant.
hough	15b	NA	No, not yet tested	No*	No	* Dynamic memory allocation support is not required provided that the input image BW has a fixed sized, the value of the RhoResolution optional parameter is a compile-time constant, and the optional Theta vector has a bounded size.
houghlines	15b	NA	No	Yes	Yes	
houghpeaks	15b	NA	No, not yet tested	No	Yes	
hsv2rgb^	14b	NA	Yes	No	No	
im2uint8	15a	14a	Yes	No	No	
im2uint16	15b	14a	Yes	No	No	
im2int16	15b	14a	Yes	No	No	
im2single	14a	NA	Yes	No	No	
im2double^	14a	NA	Yes	No	No	
imabsdiff	15b	No	No, not yet tested	No		
imadjust	15b	14b	Yes	No	No	

imbothat	14b	14a	Yes	No	Yes	
imclearborder	15a	14b	Yes	No	No	
imclose	14b	14a	Yes	No	Yes	
imcomplement	13a	NA	Yes	No	No	
imcrop	15b	NA	No, not yet tested	No	Yes	
imdilate	14b	14a	Yes	No	Yes	
imerode	14b	14a	Yes	No	Yes	
imextendedmax	15a	14a	Yes	No	Yes	
imextendedmin	15a	14a	Yes	No	Yes	
imfill	15a	13a	No*	No	Yes	G1238069
imfilter	14b	14a	Yes	No	Yes	
imgaborfilt			No			
imhist	15a	14a	Yes*	No*	No*	* Both Dynamic memory allocation and variable-sizing support are not required provided N, the number of bins, is a compile-time constant.
imhmax	15a	13a	Yes	No	Yes	
imhmin	15a	13a	Yes	No	Yes	
imlincomb	15b	14b	Yes	No	No	
immse	15b	NA	No, not yet tested	No	No	
imopen	14b	14a	Yes	No	Yes	
imquantize	14b	NA	Yes	No	No	
imreconstruct	15a	13a	Yes	No	Yes	
imref2d	14a	NA	Yes	No	No	
imref3d	14a	NA	Yes	No	Yes	
imregionalmax	15a	13a	Yes	No	Yes	
imregionalmin	15a	13a	Yes	No	Yes	
imresize	15b	NA	No, not yet tested	No*	No*	*Provided all inputs are constants

imrotate	15b	15b	No, not yet tested	No*	Yes	* Dynamic memory allocation is not required provided ANGLE is a compile-time constant.
imtophat	14b	14a	Yes	No	Yes	
imtranslate	15b	15b	No*	No*	Yes	* Dynamic memory allocation is not required provided TRANSLATION is a compile-time constant. No, not yet tested
imwarp	15a	14a	Yes	No*	Yes	* Dynamic memory allocation is not required provided TFORM is a compile-time constant.
integralBoxFilter			No			
intlut	15b	14b	Yes	No	No	
iptcheckconn	13a	NA	Yes	No	No	
iptcheckmap	14b	NA	Yes	No	No	
label2rgb	Pre-12b	NA	Yes	No	No	
mean2	13b	NA	Yes	No	No	
medfilt2	15a	14b	Yes*	No*	Yes	* Dynamic memory allocation is not required provided [M N], the neighborhood size, is a compile-time constant.
multithresh	15a	14b	Yes*	No*	Yes	* Dynamic memory allocation is not required provided the number of thresholds, N, is a compile-time constant.
ordfilt2	15a	14b	Yes	No	Yes	
padarray	13a	NA	Yes*	No*	No*	* Both Dynamic memory allocation and variable-sizing support are not required provided PADSIZ is a compile-time constant.

projective2d	14a	NA	Yes	No	No	
psnr	15b	NA	No, not yet tested	No	No	
rgb2gray^	14b	No	Yes	No	No	
rgb2hsv^	14b	No	Yes	No	No	
rgb2ycbcr	15b	14b	Yes	No	No	
regionprops	15a	15a	No	Yes	Yes	
strel	14a	NA	Yes	No	No	
stretchlim	15a	14b	Yes	No	No	
watershed	15a	15a	No	Yes	Yes	
ycbcr2rgb	15b	14b	Yes	No	No	
^ Indicates that the function is in base MATLAB.						
* Indicates that the function supports a feature provided certain conditions in the Comments/Limitations section are met.						
% Indicates an enhancement to the generated code.						