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 mikeroberts3000 fixed various bugs 03bd832 on Sep 8, 2013

[1 contributor](#)

03bd832 on Sep 8, 201

1 contributor

```

1  # - Try to find OpenCV library installation
2  # See http://sourceforge.net/projects/opencvlibrary/
3  #
4  # The following variables are optionally searched for defaults
5  # OpenCV_ROOT_DIR:      Base directory of OpenCv tree to use.
6  # OpenCV_FIND_REQUIRED_COMPONENTS : FIND_PACKAGE(OpenCV COMPONENTS ...)
7  # compatible interface. typically  CV CXCORE CVAUX HIGHGUI CVCAM .. etc.
8  #
9  # The following are set after configuration is done:
10 # OpenCV_FOUND
11 # OpenCV_INCLUDE_DIR
12 # OpenCV_LIBRARIES
13 # OpenCV_LINK_DIRECTORIES
14 #
15 # 2004/05 Jan Woetzel, Friso, Daniel Grest
16 # 2006/01 complete rewrite by Jan Woetzel
17 # 1006/09 2nd rewrite introducing ROOT_DIR and PATH_SUFFIXES
18 # to handle multiple installed versions gracefully by Jan Woetzel
19 #
20 # tested with:
21 # -OpenCV 0.97 (beta5a):  MSVS 7.1, gcc 3.3, gcc 4.1
22 # -OpenCV 0.99 (1.0rc1):  MSVS 7.1
23 #
24 # www.mip.informatik.uni-kiel.de/~jw
25 #
26 # -----
27 #
28 # $Id: FindOpenCV.cmake 8 2009-01-04 21:13:48Z adeguet1 $
29 # ERC-CISSST version:
30 #
31 # - Removed deprecated code starting with cap. OPENCV
32 # - Removed debugging code and messages
33 # - Removed path and options specifics to previous authors setups
34 #
35 # This file should be removed when CMake will provide an equivalent
36 #
37 #
38 # required cv components with header and library if COMPONENTS unspecified
39 IF(NOT OpenCV_FIND_COMPONENTS)
40 # default
41
42 #
43 #
44 #
45 # fix for OpenCV 2.4.6.1 on Mac OSX
46 #
47 #SET(OpenCV_FIND_REQUIRED_COMPONENTS CV CXCORE HIGHGUI)
48 SET(OpenCV_FIND_REQUIRED_COMPONENTS CORE HIGHGUI)
49
50
51
52 # IF(WIN32)
53 # LIST(APPEND OpenCV_FIND_REQUIRED_COMPONENTS CVCAM ) # WIN32 only actually
54 # ENDIF(WIN32)
55 ENDEF(NOT OpenCV_FIND_COMPONENTS)
56
57
58 # typical root dirs of installations, exactly one of them is used
59 SET(OpenCV_POSSIBLE_ROOT_DIRS
60 "${OpenCV_ROOT_DIR}"
61 "SENV(OpenCV_ROOT_DIR)"
62 "[KEY_LOCAL_MACHINE\\SOFTWARE\\Microsoft\\Windows\\CurrentVersion\\Uninstall\\Intel(R) Open Source Computer Vision Library_is1;Inno Setup"
63 "SENV(ProgramFiles)/OpenCV"
64 "/usr/local"
65 "/usr"
66 "/opt/local"
67 )
68
69 #
70 # select exactly ONE OpenCv base directory/tree
71 # to avoid mixing different version headers and libs
72 #
73 FIND_PATH(OpenCV_ROOT_DIR
74 NAMES
75 cv/include/cv.h # windows
76 include/opencv/cv.h # linux /opt/net
77 include/cv/cv.h
78 include/cv.h
79 PATHS ${OpenCV_POSSIBLE_ROOT_DIRS})
80
81 # header include dir suffixes appended to OpenCV_ROOT_DIR
82 SET(OpenCV_INCDIR_SUFFIXES
83 include
84 include/cv
85 include/opencv
86 cv/include
87 cxcore/include
88 cvaux/include
89 otherlibs/cvcam
90 otherlibs/highgui
91 )
92
93 # library linkdir suffixes appended to OpenCV_ROOT_DIR
94 SET(OpenCV_LIBDIR_SUFFIXES
95 lib
96 OpenCV/lib
97 )
98
99 # find incdir for each lib
100 FIND_PATH(OpenCV_CV_INCLUDE_DIR
101 NAMES cv.h
102 PATHS ${OpenCV_ROOT_DIR}
103 PATH_SUFFIXES ${OpenCV_INCDIR_SUFFIXES})
104
105 FIND_PATH(OpenCV_CXCORE_INCLUDE_DIR
106 NAMES cxcore.h
107 PATHS ${OpenCV_ROOT_DIR}
108 PATH_SUFFIXES ${OpenCV_INCDIR_SUFFIXES})
109 FIND_PATH(OpenCV_CVAUX_INCLUDE_DIR
110 NAMES cvaux.h
111 PATHS ${OpenCV_ROOT_DIR}
112 PATH_SUFFIXES ${OpenCV_INCDIR_SUFFIXES})
113 FIND_PATH(OpenCV_HIGHGUI_INCLUDE_DIR
114 NAMES highgui.h
115 PATHS ${OpenCV_ROOT_DIR}
116 PATH_SUFFIXES ${OpenCV_INCDIR_SUFFIXES})
117 FIND_PATH(OpenCV_CVCAM_INCLUDE_DIR
118 NAMES cvcam.h
119 PATHS ${OpenCV_ROOT_DIR}
120 PATH_SUFFIXES ${OpenCV_INCDIR_SUFFIXES})
121
122
123
124 #
125 # fix for OpenCV 2.4.6.1 on Mac OSX
126 #
127 FIND_PATH(OpenCV_CORE_INCLUDE_DIR
128 NAMES cxcore.h
129 PATHS ${OpenCV_ROOT_DIR}
130 PATH_SUFFIXES ${OpenCV_INCDIR_SUFFIXES})
131
132
133
134 #
135 # find absolute path to all libraries
136 # some are optionally, some may not exist on Linux
137 #
138 FIND_LIBRARY(OpenCV_CV_LIBRARY
139 NAMES cv opencv
140 PATHS ${OpenCV_ROOT_DIR}
141 PATH_SUFFIXES ${OpenCV_LIBDIR_SUFFIXES})
142 FIND_LIBRARY(OpenCV_CVAUX_LIBRARY
143 NAMES cvaux
144 PATHS ${OpenCV_ROOT_DIR} PATH_SUFFIXES ${OpenCV_LIBDIR_SUFFIXES})
145 FIND_LIBRARY(OpenCV_CVCAM_LIBRARY
146 NAMES cvcam
147 PATHS ${OpenCV_ROOT_DIR} PATH_SUFFIXES ${OpenCV_LIBDIR_SUFFIXES})
148 FIND_LIBRARY(OpenCV_CVHAARTRAINING_LIBRARY
149 NAMES cvhaartraining
150 PATHS ${OpenCV_ROOT_DIR} PATH_SUFFIXES ${OpenCV_LIBDIR_SUFFIXES})
151 FIND_LIBRARY(OpenCV_CXCORE_LIBRARY
152 NAMES cxcore
153 PATHS ${OpenCV_ROOT_DIR} PATH_SUFFIXES ${OpenCV_LIBDIR_SUFFIXES})
154 FIND_LIBRARY(OpenCV_CXTS_LIBRARY
155 NAMES cxts
156 PATHS ${OpenCV_ROOT_DIR} PATH_SUFFIXES ${OpenCV_LIBDIR_SUFFIXES})
157 FIND_LIBRARY(OpenCV_HIGHGUI_LIBRARY
158 NAMES highgui
159 PATHS ${OpenCV_ROOT_DIR} PATH_SUFFIXES ${OpenCV_LIBDIR_SUFFIXES})
160 FIND_LIBRARY(OpenCV_TRS_LIBRARY
161 NAMES trs
162 PATHS ${OpenCV_ROOT_DIR} PATH_SUFFIXES ${OpenCV_LIBDIR_SUFFIXES})
163
164
165
166 FIND_LIBRARY(OpenCV_CORE_LIBRARY
167 NAMES opencv_core
168 PATHS ${OpenCV_ROOT_DIR} PATH_SUFFIXES ${OpenCV_LIBDIR_SUFFIXES})
169
170 FIND_LIBRARY(OpenCV_HIGHGUI_LIBRARY
171 NAMES opencv_highgui
172 PATHS ${OpenCV_ROOT_DIR} PATH_SUFFIXES ${OpenCV_LIBDIR_SUFFIXES})
173
174
175
176 # Logic selecting required libs and headers
177 SET(OpenCV_FOUND ON)
178 FOREACH(NAME ${OpenCV_FIND_REQUIRED_COMPONENTS})
179 # only good if header and library both found
180 IF(OpenCV_${NAME}_INCLUDE_DIR AND OpenCV_${NAME}_LIBRARY)
181 LIST(APPEND OpenCV_INCLUDE_DIRS "${OpenCV_${NAME}_INCLUDE_DIR}")
182 LIST(APPEND OpenCV_LIBRARIES "${OpenCV_${NAME}_LIBRARY}")
183 ELSE(OpenCV_${NAME}_INCLUDE_DIR AND OpenCV_${NAME}_LIBRARY)
184 message("Could not find OpenCV_${NAME}_INCLUDE_DIR")
185 SET(OpenCV_FOUND OFF)
186 ENDEF(OpenCV_${NAME}_INCLUDE_DIR AND OpenCV_${NAME}_LIBRARY)
187 ENDFOREACH(NAME)
188
189 message("Include dir: ${OpenCV_FOUND}")
190
191 # get the link directory for rpath to be used with LINK_DIRECTORIES:
192 IF(OpenCV_CV_LIBRARY)
193 GET_FILENAME_COMPONENT(OpenCV_LINK_DIRECTORIES ${OpenCV_CV_LIBRARY} PATH)
194 ENDEF(OpenCV_CV_LIBRARY)
195
196 MARK_AS_ADVANCED(
197 OpenCV_ROOT_DIR
198 OpenCV_INCLUDE_DIRS
199 OpenCV_CV_INCLUDE_DIR
200 OpenCV_CXCORE_INCLUDE_DIR
201 OpenCV_CVAUX_INCLUDE_DIR
202 OpenCV_CVCAM_INCLUDE_DIR
203 OpenCV_HIGHGUI_INCLUDE_DIR
204 OpenCV_LIBRARIES
205 OpenCV_CV_LIBRARY
206 OpenCV_CXCORE_LIBRARY
207 OpenCV_CVAUX_LIBRARY
208 OpenCV_CVCAM_LIBRARY
209 OpenCV_CVHAARTRAINING_LIBRARY
210 OpenCV_CXTS_LIBRARY
211 OpenCV_HIGHGUI_LIBRARY
212 OpenCV_TRS_LIBRARY
213 )
214
215
216 # display help message
217 IF(NOT OpenCV_FOUND)
218 # make FIND_PACKAGE friendly
219 IF(OpenCV_FIND_REQUIRED)
220 MESSAGE(FATAL_ERROR
221 "OpenCV required but some headers or libs not found. Please specify it's location with OpenCV_ROOT_DIR env. variable.")
222 ELSE(OpenCV_FIND_REQUIRED)
223 MESSAGE(STATUS
224 "ERROR: OpenCV was not found.")
225 ENDEF(OpenCV_FIND_REQUIRED)
226 ELSE(NOT OpenCV_FOUND)
227 MESSAGE(STATUS
228 "OpenCV found at ${OpenCV_ROOT_DIR}")
229 ENDEF(NOT OpenCV_FOUND)
230
231
232 #
233 # $Log: FindOpenCV.cmake,v $
234 # Revision 1.2 2008/11/03 16:48:34 vagvoba
235 # cmake: Proper cvcam and highgui directories added to FindOpenCV.cmake
236 #
237 # Revision 1.1 2007/07/12 00:22:25 amton
238 # cmake utilities: Added FindOpenCV.cmake based on example found all over the
239 # web. Will have to be removed when CMake provides one.
240 #
241 #
242 #
243 #

```