

M_Lib Quick Reference Card

C++ Macros

Macro	Meaning
<code>cerr << M_MSG(EMPTY_PATH);</code>	Prints to standard error stream the format EMPTY_PATH , e.g.: Illegal empty path
<pre>double value = 300000.; char* name = "light speed"; char* units = "km/h"; cout << M_MSG3(MSG_CONSTANT, char*, name, double, value, char*, units);</pre>	<p>If the format MSG_CONSTANT is "The <\$1> is <\$2> <\$3>" then prints to standard output stream The light speed is 300000. km/h</p> <p>If the format MSG_CONSTANT is "<\$2> <\$3> is the value of <\$1>." then prints 300000. km/h is the value of light speed</p>
<code>M_SET_MESSAGE_FILE("C:\\MyProg\\msgs")</code>	Cleans up current formats (if any) and loads formats from file C:\\MyProg\\msgs
<pre>FILE* fp = ...; char line[256]; M_MSG1_DECL(msg, ILLEGAL_LINE, char*, line); ... cerr << msg << endl;</pre>	Creation of variable msg containing the message, which can be used later

C++ Compiler

Pre-processor define	Meaning
M_JIT_MODE	Each format will be loaded "on-demand" (by default all formats are loaded into memory)
_UNICODE	To build and use M_Lib for UNICODE messages (default is ASCII messages)
M_STD_Iostream M_NO_Iostream	Which IOSTREAM library will be used: C++ standard (#include <iostream>), no IOSTREAM (built-in support of base types), or old-style (#include <iostream.h>) – by default (if nothing defined)

Run-time Environment Variables

Variable	Meaning
MLIB_FNAME=path	Message formats dictionary file name/path

Message Formats Dictionary File

Recommended common messages	
# something not implemented yet COMMON_NOT_IMPLEMENTED	"Feature [<\$1>] is not implemented yet."
# impossible/bad situations COMMON_MUSTNT_BE_HERE COMMON_SMTH_FAILED COMMON_SMTH_FAILED_FOR COMMON_SMTH_FAILED_WHY COMMON_SMTH_FAILED_FOR_WHY	<p>"Can not happen!"</p> <p>"<\$1> failed"</p> <p>"<\$1> failed for [<\$2>]"</p> <p>"<\$1> failed: <\$2>"</p> <p>"<\$1> failed for [<\$2>]: <\$3>"</p>
# illegal function/method/etc. call problems COMMON_ILL_ZERO_ARG COMMON_ILL_ARG COMMON_ILL_EXTRA_ARG	<p>"Illegal zero argument for <\$2>"</p> <p>"Illegal argument [<\$1>] for <\$2>"</p> <p>"Illegal extra argument [<\$1>] for <\$2>"</p>
# something strange in a list/table/etc. COMMON_UNEXPECTED_0_ENTRY COMMON_UNEXPECTED_ENTRY	<p>"Unexpected empty entry in [<\$1>]"</p> <p>"Unexpected entry [<\$1>] in [<\$2>]"</p>
# memory problems COMMON_MEM_FAIL	"Can't allocate memory - <\$1> failed"
# file problems COMMON_FL_EMPTY_PATH COMMON_FL_ILL_PATH COMMON_FL_EXISTS COMMON_FL_DOESNT_EXIST COMMON_FL_CANT_W COMMON_FL_CANT_R COMMON_FL_CANT_WHAT COMMON_FL_ACCESS_DENIED COMMON_FL_CREATE_FAIL COMMON_FL_CREATE_FAIL_WHY COMMON_FL_OPEN_FAIL COMMON_FL_OPEN_FAIL_FOR COMMON_FL_OPEN_FAIL_WHY COMMON_FL_OPEN_FAIL_FOR_WHY COMMON_FL_READ_FAIL COMMON_FL_READ_FAIL_WHY COMMON_FL_WRITE_FAIL COMMON_FL_WRITE_FAIL_WHY COMMON_FL_SEEK_FAIL COMMON_FL_SEEK_FAIL_WHY COMMON_FL_LOCK_FAIL COMMON_FL_LOCK_FAIL_WHY COMMON_FL_UNLOCK_FAIL COMMON_FL_UNLOCK_FAIL_WHY COMMON_FL_LOCKED COMMON_FL_CHDIR_FAIL COMMON_FL_NOT_REGFILE COMMON_FL_NOT_DIR	<p>"Illegal empty path"</p> <p>"Illegal path [<\$1>]"</p> <p>"File/dir [<\$1>] already exists"</p> <p>"File/dir [<\$1>] does not exist"</p> <p>"File/dir [<\$1>] has no write permissions"</p> <p>"File/dir [<\$1>] has no read permissions"</p> <p>"File/dir [<\$1>] has no permissions for <\$2>"</p> <p>"Access denied for file/dir [<\$1>]"</p> <p>"Can not create file/dir [<\$1>]"</p> <p>"Can not create file/dir [<\$1>]: <\$2>"</p> <p>"Can not open file [<\$1>]"</p> <p>"Can not open file [<\$1>] for <\$2>"</p> <p>"Can not open file [<\$1>]: <\$2>"</p> <p>"Can not open file [<\$1>] for [<\$2>]: <\$3>"</p> <p>"Reading file [<\$1>] failed"</p> <p>"Reading file [<\$1>] failed: <\$2>"</p> <p>"Writing file [<\$1>] failed"</p> <p>"Writing file [<\$1>] failed: <\$2>"</p> <p>"Seeking file [<\$1>] failed"</p> <p>"Seeking file [<\$1>] failed: <\$2>"</p> <p>"Locking file [<\$1>] failed"</p> <p>"Locking file [<\$1>] failed: <\$2>"</p> <p>"Unlocking file [<\$1>] failed"</p> <p>"Unlocking file [<\$1>] failed: <\$2>"</p> <p>"File [<\$1>] is locked"</p> <p>"Can not change current directory to [<\$1>]"</p> <p>"[<\$1>] is not regular file"</p> <p>"[<\$1>] is not directory"</p>