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```

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 J/
 58
                // Legacy EEConfig-style lookup.
 59
                 EEConfig_default = 0,
 60
 61
            };
 62
            // Struct used to store information about where/how to find a Config DWORD.
 63
            // NOTE: Please do NOT create instances of this struct. Use the macros in file:CLRC
 64
            typedef struct ConfigDWORDInfo
 65
 66
            {
                LPCWSTR name;
 67
                DWORD defaultValue;
 68
                LookupOptions options;
 69
            } ConfigDWORDInfo;
 70
 71
 72
            // Struct used to store information about where/how to find a Config String.
            // NOTE: Please do NOT create instances of this struct. Use the macros in file:CLRC
 73
 74 ~
            typedef struct ConfigStringInfo
 75
            {
                LPCWSTR name;
 76
 77
                LookupOptions options;
            } ConfigStringInfo;
 78
 79
 80
            //
            // Declaring structs using the macro table in CLRConfigValues.h
 81
 82
 83
            // These macros declare ConfigDWORDInfo structs.
 84
            #define RETAIL_CONFIG_DWORD_INFO(symbol, name, defaultValue, description) \
 85
                 static const ConfigDWORDInfo symbol;
 86
            #define RETAIL_CONFIG_DWORD_INFO_EX(symbol, name, defaultValue, description, lookup
 87
                 static const ConfigDWORDInfo symbol;
 88
 89
            // These macros declare ConfigStringInfo structs.
 90
            #define RETAIL_CONFIG_STRING_INFO(symbol, name, description) \
 91
                 static const ConfigStringInfo symbol;
 92
            #define RETAIL_CONFIG_STRING_INFO_EX(symbol, name, description, lookupOptions) \
 93
                static const ConfigStringInfo symbol;
 94
 95
            // TEMPORARY macros that declare strings. These are used for config value accesses
 96
            // moved over to CLRConfig yet. Once all accesses have been moved, these macros (and
 97
            // instantiations in file:../utilcode/CLRConfig.cpp) should be removed.
 98
            #define RETAIL_CONFIG_DWORD_INFO_DIRECT_ACCESS(symbol, name, description) \
 99
                 static const LPCWSTR symbol;
100
            #define RETAIL_CONFIG_STRING_INFO_DIRECT_ACCESS(symbol, name, description) \
101
                 static const LPCWSTR symbol;
102
103
104
            //
105
            // Debug versions of the macros
106
            //
        #ifdef _DEBUG
107
            #define CONFIG_DWORD_INFO(symbol, name, defaultValue, description) \
108
                static const ConfigDWORDInfo symbol;
109
            #define CONFIG_DWORD_INFO_EX(symbol, name, defaultValue, description, lookupOptions
110
                static const ConfigDWORDInfo symbol;
111
            #define CONFIG_STRING_INFO(symbol, name, description)
112
                static const ConfigStringInfo symbol;
113
            #define CONFIG_STRING_INFO_EX(symbol, name, description, lookupOptions) \
114
                static const ConfigStringInfo symbol;
115
            #define CONFIG_DWORD_INFO_DIRECT_ACCESS(symbol, name, description) \
116
                static const LPCWSTR symbol;
117
            #define CONFIG_STRING_INFO_DIRECT_ACCESS(symbol, name, description) \
118
```

```
#undef CONFIG STRING INFO DIRECT ACCESS
142
143
144
            //
            // Methods to do config value (DWORD and String) lookups.
145
146
            //
            static BOOL IsConfigEnabled(const ConfigDWORDInfo & info);
147
148
            // Look up a DWORD config value.
149
            static DWORD GetConfigValue(const ConfigDWORDInfo & info);
150
151
            // Look up a DWORD config value.
152
            static DWORD GetConfigValue(const ConfigDWORDInfo & info, bool acceptExplicitDefaul
153
154
            // Look up a string config value.
155
            // You own the string that's returned.
156
            static LPWSTR GetConfigValue(const ConfigStringInfo & info);
157
158
            // Look up a string config value, passing it out through a pointer reference. Repor
159
            // errors (HRESULT E_OUTOFMEMORY).
160
            // You own the string that's returned.
161
            static HRESULT GetConfigValue(const ConfigStringInfo & info, __deref_out_z LPWSTR ?
162
163
            //
164
            // Check whether an option is specified (e.g. explicitly listed) in any of the CLRC
165
            // locations: environment or registry (with or without COMPlus_) or any config file
166
            // The result is therefore a conservative approximation (some settings do not actua
167
            // take effect everywhere and no setting is valid both with and without COMPlus_)
168
169
            static BOOL IsConfigOptionSpecified(LPCWSTR name);
170
171
            // Free a string returned by GetConfigValue
172
            static void FreeConfigString(__in __in_z LPWSTR name);
173
174
175
        private:
176
            // Helper method to translate LookupOptions to REGUTIL::CORConfigLevel
177
            static REGUTIL::CORConfigLevel GetConfigLevel(LookupOptions options);
178
179
180
            //
            // Helper methods.
181
182
            //
183
            // Helper method to check if a certain option is set in a ConfigDWORDInfo struct.
184
            static inline BOOL CheckLookupOption(const ConfigDWORDInfo & info, LookupOptions op
185
186
            {
                LIMITED_METHOD_CONTRACT;
187
188
                return ((info.options & option) == option) ? TRUE : FALSE;
189
            }
190
            // Helper method to check if a certain option is set in a ConfigStringInfo struct.
191
            static inline BOOL CheckLookupOption(const ConfigStringInfo & info, LookupOptions o
192
193
                LIMITED_METHOD_CONTRACT;
194
                return ((info.options & option) == option) ? TRUE : FALSE;
195
196
            }
197
            // Helper method to check if a certain option is set in an options enum.
198
199
            static inline BOOL CheckLookupOption(LookupOptions infoOptions, LookupOptions optio
200
            {
                LIMITED METHOD CONTRACT;
201
                return ((infoOptions & optionToCheck) == optionToCheck) ? TRUE : FALSE;
202
203
            }
204
            static HRESULT TrimWhiteSpace(LPCWSTR wszOrig, __deref_out_z LPWSTR * pwszTrimmed);
205
        }:
206
```