

تابع - الباب الثاني

الثوابت القياسية

• طرق كتابة المتوسط المتحرك Moving Average

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طرق كتابة المتوسط المتحرك

Moving Average

تستخدم حسابات المتوسط المتحرك مع المؤشرات التالية :

[iMA\(\)](#), [iGator\(\)](#), [iForce\(\)](#), [iEnvelopesOnArray](#), [iEnvelopes\(\)](#), [iAlligator\(\)](#),
[iStochastic\(\)](#), [iStdDevOnArray\(\)](#), [iStdDev\(\)](#), [iMAOnArray\(\)](#)

وتأخذ إحدى القيم التالية :

Constant	Value	Description
MODE_SMA	0	Simple moving average,
MODE_EMA	1	Exponential moving average,
MODE_SMMA	2	Smoothed moving average,
MODE_LWMA	3	Linear weighted moving average.

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صندوق الرسائل

إذا احتوى مربع الرسالة على زر إلغاء ، ترجع المعادلة الى القيمة IDCANCEL

سواء إذا تم الضغط على الزر ESC او Cancel

وإذا لم يحتوى مربع الرسالة على زر الإلغاء Cancel يصبح عندها الضغط على زر

ESC لا قيمة له

ملحوظة : رموز الارجاع لمربعات الرسائل يوجد تعريفها في الملف :

WinUser32.mqh

مثال :

Constant	Value	Description
IDOK	1	OK button was selected.
IDCANCEL	2	Cancel button was selected.
IDABORT	3	Abort button was selected.
IDRETRY	4	Retry button was selected.
IDIGNORE	5	Ignore button was selected.
IDYES	6	Yes button was selected.
IDNO	7	No button was selected.
IDTRYAGAIN	10	Try Again button was selected.
IDCONTINUE	11	Continue button was selected.

معادلة صندوق الرسائل تحدد مضمون مربع الرسائل ، وقد تكون مجتمعة مع قيم
اخرى

ولتحديد الأزرار الى تظهر في صندوق الرسائل ، عليك إختيار احدى هذه القيم :

إنطلق إلى القائمة

لاحظ :

Constant	Value	Description
MB_OK	0x00000000	The message box contains one push button: OK. This is the default.
MB_OKCANCEL	0x00000001	The message box contains two push buttons: OK and Cancel.
MB_ABORTRETRYIGNORE	0x00000002	The message box contains three push buttons: Abort, Retry, and Ignore.
MB_YESNOCANCEL	0x00000003	The message box contains three push buttons: Yes, No, and Cancel.
MB_YESNO	0x00000004	The message box contains two push buttons: Yes and No.
MB_RETRYCANCEL	0x00000005	The message box contains two push buttons: Retry and Cancel.
MB_CANCELTRYCONTINUE	0x00000006	Windows 2000: The message box contains three push buttons: Cancel, Try Again, MB_ABORTRETRYIGNORE.

أما لإظهار أيقونة في مربع الرسائل ، فعليك إختيار احدى هذه القيم :
لاحظ :

Constant	Value	Description
MB_ICONSTOP, MB_ICONERROR, MB_ICONHAND	0x00000010	A stop-sign icon appears in the message box.
MB_ICONQUESTION	0x00000020	A question-mark icon appears in the message box.
MB_ICONEXCLAMATION, MB_ICONWARNING	0x00000030	An exclamation-point icon appears in the message box.
MB_ICONINFORMATION, MB_ICONASTERISK	0x00000040	An icon consisting of a lowercase letter i in a circle appears in the message box.

ولتحديد الزر الأساسي ، عليك إختيار احدى هذه القيم :

Constant	Value	Description
MB_DEFBUTTON1	0x00000000	The first button is the default button. MB_DEFBUTTON1 is the default unless MB_DEFBUTTON2, MB_DEFBUTTON3, or MB_DEFBUTTON4 is specified.
MB_DEFBUTTON2	0x000000100	The second button is the default button.
MB_DEFBUTTON3	0x000000200	The third button is the default button.
MB_DEFBUTTON4	0x000000300	The fourth button is the default button.

الأدوات الأخرى

تستخدم مع الدوال والمعادلات التالية :

[ObjectType\(\)](#) and [ObjectsDeleteAll\(\)](#), [ObjectCreate\(\)](#)

وتأخذ إحدى هذه القيم :

إنطلق إلى القمة



Constant	Value	Description
OBJ_VLINE	0	Vertical line. Uses time part of first coordinate.
OBJ_HLINE	1	Horizontal line. Uses price part of first coordinate.
OBJ_TREND	2	Trend line. Uses 2 coordinates.
OBJ_TRENDBYANGLE	3	Trend by angle. Uses 1 coordinate. To set angle of line use ObjectSet() function.
OBJ_REGRESSION	4	Regression. Uses time parts of first two coordinates.
OBJ_CHANNEL	5	Channel. Uses 3 coordinates.
OBJ_STDDEVCHANNEL	6	Standard deviation channel. Uses time parts of first two coordinates.
OBJ_GANLINE	7	Gann line. Uses 2 coordinate, but price part of second coordinate ignored.
OBJ_GANFAN	8	Gann fan. Uses 2 coordinate, but price part of second coordinate ignored.
OBJ_GANGRID	9	Gann grid. Uses 2 coordinate, but price part of second coordinate ignored.
OBJ_FIBO	10	Fibonacci retracement. Uses 2 coordinates.
OBJ_FIBOTIMES	11	Fibonacci time zones. Uses 2 coordinates.
OBJ_FIBOFAN	12	Fibonacci fan. Uses 2 coordinates.
OBJ_FIBOARC	13	Fibonacci arcs. Uses 2 coordinates.
OBJ_EXPANSION	14	Fibonacci expansions. Uses 3 coordinates.
OBJ_FIBOCHANNEL	15	Fibonacci channel. Uses 3 coordinates.
OBJ_RECTANGLE	16	Rectangle. Uses 2 coordinates.
OBJ_TRIANGLE	17	Triangle. Uses 3 coordinates.
OBJ_ELLIPSE	18	Ellipse. Uses 2 coordinates.
OBJ_PITCHFORK	19	Andrews pitchfork. Uses 3 coordinates.
OBJ_CYCLES	20	Cycles. Uses 2 coordinates.
OBJ_TEXT	21	Text. Uses 1 coordinate.
OBJ_ARROW	22	Arrows. Uses 1 coordinate.
OBJ_LABEL	23	Text label. Uses 1 coordinate in pixels.

خصائص الأدوات

تستخدم مع الدوال والمعادلات التالية :

[ObjectSet\(\)](#) and [ObjectGet\(\)](#)

وتأخذ احدى القيم التالية :

الجدول التالي

Constant	Value	Type	Description
OBJPROP_TIME1	0	datetime	Datetime value to set/get first coordinate time part.
OBJPROP_PRICE1	1	double	Double value to set/get first coordinate price part.
OBJPROP_TIME2	2	datetime	Datetime value to set/get second coordinate time part.
OBJPROP_PRICE2	3	double	Double value to set/get second coordinate price part.
OBJPROP_TIME3	4	datetime	Datetime value to set/get third coordinate time part.
OBJPROP_PRICE3	5	double	Double value to set/get third coordinate price part.
OBJPROP_COLOR	6	color	Color value to set/get object color.
OBJPROP_STYLE	7	int	Value is one of STYLE SOLID, STYLE DASH, STYLE_DOT, STYLE_DASHDOT, STYLE_DASHDOTDOT constants to set/get object line style.
OBJPROP_WIDTH	8	int	Integer value to set/get object line width. Can be from 1 to 5.
OBJPROP_BACK	9	bool	Boolean value to set/get background drawing flag for object.
OBJPROP_RAY	10	bool	Boolean value to set/get ray flag of object.
OBJPROP_ELLIPSE	11	bool	Boolean value to set/get ellipse flag for fibo arcs.
OBJPROP_SCALE	12	double	Double value to set/get scale object property.
OBJPROP_ANGLE	13	double	Double value to set/get angle object property in degrees.
OBJPROP_ARROWCODE	14	int	Integer value or arrow enumeration to set/get arrow code object property.

تابع :

OBJPROP_DEVIATION	16	double	Double value to set/get deviation property for Standard deviation objects.
OBJPROP_FONTSIZE	100	int	Integer value to set/get font size for text objects.
OBJPROP_CORNER	101	int	Integer value to set/get anchor corner property for label objects. Must be from 0-3.
OBJPROP_XDISTANCE	102	int	Integer value to set/get anchor X distance object property in pixels.
OBJPROP_YDISTANCE	103	int	Integer value is to set/get anchor Y distance object property in pixels.
OBJPROP_FIBOLEVELS	200	int	Integer value to set/get Fibonacci object level count. Can be from 0 to 32.
OBJPROP_LEVELCOLOR	201	color	Color value to set/get object level line color.
OBJPROP_LEVELSTYLE	202	int	Value is one of STYLE_SOLID, STYLE_DASH, STYLE_DOT, STYLE_DASHDOT, STYLE_DASHDOTDOT constants to set/get object level line style.
OBJPROP_LEVELWIDTH	203	int	Integer value to set/get object level line width. Can be from 1 to 5.
OBJPROP_FIRSTLEVEL+n	210+n	int	Integer value to set/get the value of Fibonacci object level with index <i>n</i> . Index <i>n</i> can larger than 31.

خصائص ظهور الادوات

وتستخدم مع الدالة التالية [ObjectSet\(\)](#)

لاحظ :

إنطلق إلى القمة

Constant	Value	Description
OBJ_PERIOD_M1	0x0001	Object shown is only on 1-minute charts.
OBJ_PERIOD_M5	0x0002	Object shown is only on 5-minute charts.
OBJ_PERIOD_M15	0x0004	Object shown is only on 15-minute charts.
OBJ_PERIOD_M30	0x0008	Object shown is only on 30-minute charts.
OBJ_PERIOD_H1	0x0010	Object shown is only on 1-hour charts.
OBJ_PERIOD_H4	0x0020	Object shown is only on 4-hour charts.
OBJ_PERIOD_D1	0x0040	Object shown is only on daily charts.
OBJ_PERIOD_W1	0x0080	Object shown is only on weekly charts.
OBJ_PERIOD_MN1	0x0100	Object shown is only on monthly charts.
OBJ_ALL_PERIODS	0x01FF	Object shown is on all timeframes.
NULL	0	Object shown is on all timeframes.
EMPTY	-1	Hidden object on all timeframes.

حذف وتعديل أكواد السبب

تستخدم مع الدالة :

[UninitializeReason\(\)](#)

لاحظ :

إنطلق إلى القيمة

Constant	Value	Description
	0	Script finished its execution independently.
REASON_REMOVE	1	Expert removed from chart.
REASON_RECOMPILE	2	Expert recompiled.
REASON_CHARTCHANGE	3	symbol or timeframe changed on the chart.
REASON_CHARTCLOSE	4	Chart closed.
REASON_PARAMETERS	5	Inputs parameters was changed by user.
REASON_ACCOUNT	6	Other account activated.

الثوابت الخاصة

تستخدم للإشارة للمتغيرات الغير واردة ، وتكون احدى القيم التالية :

لاحظ :

Constant	Value	Description
NULL	0	Indicates empty state of the string.
EMPTY	-1	Indicates empty state of the parameter.
EMPTY_VALUE	0x7FFFFFFF	Default custom indicator empty value.
CLR_NONE	0xFFFFFFFF	Indicates empty state of colors.
WHOLE_ARRAY	0	Used with array functions. Indicates that all array elements will be processed.



أكواد الخطأ

تعود للدالة :

[GetLastError\(\)](#)

وتعرف للملف :

stderr.mqh

انطلقوا إلى القمة

لاحظ :

```
#include <stderr.mqh>
#include <stdlib.mqh>
void SendMyMessage(string text)
{
    int check;
    SendMail("some subject", text);
    check=GetLastError();
    if(check!=ERR_NO_ERROR) Print("Cannot send message, error: ",ErrorDescription(check));
}
```

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وترجع رسائل الخطا من السيرفر الخاص بالمتاجرة

وهي :

Constant	Value	Description
ERR_NO_ERROR	0	No error returned.
ERR_NO_RESULT	1	No error returned, but the result is unknown.
ERR_COMMON_ERROR	2	Common error.
ERR_INVALID_TRADE_PARAMETERS	3	Invalid trade parameters.
ERR_SERVER_BUSY	4	Trade server is busy.
ERR_OLD_VERSION	5	Old version of the client terminal.
ERR_NO_CONNECTION	6	No connection with trade server.
ERR_NOT_ENOUGH_RIGHTS	7	Not enough rights.
ERR_TOO_FREQUENT_REQUESTS	8	Too frequent requests.
ERR_MALFUNCTIONAL_TRADE	9	Malfunctional trade operation.
ERR_ACCOUNT_DISABLED	64	Account disabled.
ERR_INVALID_ACCOUNT	65	Invalid account.
ERR_TRADE_TIMEOUT	128	Trade timeout.
ERR_INVALID_PRICE	129	Invalid price.
ERR_INVALID_STOPS	130	Invalid stops.
ERR_INVALID_TRADE_VOLUME	131	Invalid trade volume.
ERR_MARKET_CLOSED	132	Market is closed.
ERR_TRADE_DISABLED	133	Trade is disabled.
ERR_NOT_ENOUGH_MONEY	134	Not enough money.



تابع :

ERR_PRICE_CHANGED	135	Price changed.
ERR_OFF_QUOTES	136	Off quotes.
ERR_BROKER_BUSY	137	Broker is busy.
ERR_REQUOTE	138	Requote.
ERR_ORDER_LOCKED	139	Order is locked.
ERR_LONG_POSITIONS_ONLY_ALLOWED	140	Long positions only allowed.
ERR_TOO_MANY_REQUESTS	141	Too many requests.
ERR_TRADE_MODIFY_DENIED	145	Modification denied because order too close to market.
ERR_TRADE_CONTEXT_BUSY	146	Trade context is busy.
ERR_TRADE_EXPIRATION_DENIED	147	Expirations are denied by broker.
ERR_TRADE_TOO_MANY_ORDERS	148	The amount of open and pending orders has reached the limit set by the broker.
ERR_TRADE_HEDGE_PROHIBITED	149	An attempt to open a position opposite to the existing one when hedging is disabled.
ERR_TRADE_PROHIBITED_BY_FIFO	150	An attempt to close a position contravening the FIFO rule.

أكواد إنتهاء الوقت الخاصة بلغة MQL4 :

Constant	Value	Description
ERR_NO_MQLERROR	4000	No error.
ERR_WRONG_FUNCTION_POINTER	4001	Wrong function pointer.
ERR_ARRAY_INDEX_OUT_OF_RANGE	4002	Array index is out of range.
ERR_NO_MEMORY_FOR_CALL_STACK	4003	No memory for function call stack.
ERR_RECURSIVE_STACK_OVERFLOW	4004	Recursive stack overflow.
ERR_NOT_ENOUGH_STACK_FOR_PARAM	4005	Not enough stack for parameter.
ERR_NO_MEMORY_FOR_PARAM_STRING	4006	No memory for parameter string.
ERR_NO_MEMORY_FOR_TEMP_STRING	4007	No memory for temp string.
ERR_NOT_INITIALIZED_STRING	4008	Not initialized string.
ERR_NOT_INITIALIZED_ARRAYSTRING	4009	Not initialized string in array.
ERR_NO_MEMORY_FOR_ARRAYSTRING	4010	No memory for array string.
ERR_TOO_LONG_STRING	4011	Too long string.
ERR_REMAINDER_FROM_ZERO_DIVIDE	4012	Remainder from zero divide.
ERR_ZERO_DIVIDE	4013	Zero divide.
ERR_UNKNOWN_COMMAND	4014	Unknown command.
ERR_WRONG_JUMP	4015	Wrong jump (never generated error).

تابع :

ERR_WRONG_JUMP	4015	Wrong jump (never generated error).
ERR_NOT_INITIALIZED_ARRAY	4016	Not initialized array.
ERR_DLL_CALLS_NOT_ALLOWED	4017	DLL calls are not allowed.
ERR_CANNOT_LOAD_LIBRARY	4018	Cannot load library.
ERR_CANNOT_CALL_FUNCTION	4019	Cannot call function.
ERR_EXTERNAL_CALLS_NOT_ALLOWED	4020	Expert function calls are not allowed.
ERR_NO_MEMORY_FOR_RETURNED_STR	4021	Not enough memory for temp string returned from function.
ERR_SYSTEM_BUSY	4022	System is busy (never generated error).
ERR_INVALID_FUNCTION_PARAMSCNT	4050	Invalid function parameters count.
ERR_INVALID_FUNCTION_PARAMVALUE	4051	Invalid function parameter value.
ERR_STRING_FUNCTION_INTERNAL	4052	String function internal error.
ERR_SOME_ARRAY_ERROR	4053	Some array error.
ERR_INCORRECT_SERIESARRAY_USING	4054	Incorrect series array using.
ERR_CUSTOM_INDICATOR_ERROR	4055	Custom indicator error.

تابع :

ERR_INCOMPATIBLE_ARRAYS	4056	Arrays are incompatible.
ERR_GLOBAL_VARIABLES_PROCESSING	4057	Global variables processing error.
ERR_GLOBAL_VARIABLE_NOT_FOUND	4058	Global variable not found.
ERR_FUNC_NOT_ALLOWED_IN_TESTING	4059	Function is not allowed in testing mode.
ERR_FUNCTION_NOT_CONFIRMED	4060	Function is not confirmed.
ERR_SEND_MAIL_ERROR	4061	Send mail error.
ERR_STRING_PARAMETER_EXPECTED	4062	String parameter expected.
ERR_INTEGER_PARAMETER_EXPECTED	4063	Integer parameter expected.
ERR_DOUBLE_PARAMETER_EXPECTED	4064	Double parameter expected.
ERR_ARRAY_AS_PARAMETER_EXPECTED	4065	Array as parameter expected.
ERR_HISTORY_WILL_UPDATED	4066	Requested history data in updating state.
ERR_TRADE_ERROR	4067	Some error in trading function.
ERR_END_OF_FILE	4099	End of file.
ERR_SOME_FILE_ERROR	4100	Some file error.
ERR_WRONG_FILE_NAME	4101	Wrong file name.
ERR_TOO_MANY_OPENED_FILES	4102	Too many opened files.
ERR_CANNOT_OPEN_FILE	4103	Cannot open file.
ERR_INCOMPATIBLE_FILEACCESS	4104	Incompatible access to a file.
ERR_NO_ORDER_SELECTED	4105	No order selected.
ERR_UNKNOWN_SYMBOL	4106	Unknown symbol.

تابع :

ERR_INVALID_PRICE_PARAM	4107	Invalid price.
ERR_INVALID_TICKET	4108	Invalid ticket.
ERR_TRADE_NOT_ALLOWED	4109	Trade is not allowed. Enable checkbox "Allow live trading" in the expert properties.
ERR_LONGS_NOT_ALLOWED	4110	Longs are not allowed. Check the expert properties.
ERR_SHORTS_NOT_ALLOWED	4111	Shorts are not allowed. Check the expert properties.
ERR_OBJECT_ALREADY_EXISTS	4200	Object exists already.
ERR_UNKNOWN_OBJECT_PROPERTY	4201	Unknown object property.
ERR_OBJECT_DOES_NOT_EXIST	4202	Object does not exist.
ERR_UNKNOWN_OBJECT_TYPE	4203	Unknown object type.
ERR_NO_OBJECT_NAME	4204	No object name.
ERR_OBJECT_COORDINATES_ERROR	4205	Object coordinates error.
ERR_NO_SPECIFIED_SUBWINDOW	4206	No specified subwindow.
ERR_SOME_OBJECT_ERROR	4207	Some error in object function.

إنتهى الباب الثانى الخاص بالثوابت القياسية

يُتَبَعُ