

```

//+-----+
//|                                     |
//|                                     |
//|                                     |
//|                                     |
//+-----+
#property copyright " Copyright © 2018, M Wilson"
#property link      " http://www.algotrader.blog/"
//-----
#property indicator_chart_window
#property indicator_buffers 2
#include <stdlib.mqh>
//+-----+
//| Common External variables         |
//+-----+
extern double ATRPeriod=10;
extern double ATRMult=1;
extern int   ATROffset=1;
extern int   MidOffset=1;
extern int   LineWidth=1;
extern color LineColor=clrRed;
//+-----+
//| Special Conversion Functions      |
//+-----+
int LastTradeTime;
double ExtHistoBuffer[];
double ExtHistoBuffer2[];
//+-----+
//|                                     |
//+-----+
void SetLoopCount(int loops)
{
}
//+-----+
//|                                     |
//+-----+
void SetIndexValue(int shift, double value)
{
    ExtHistoBuffer[shift]=value;
}
//+-----+
//|                                     |
//+-----+
void SetIndexValue2(int shift, double value)
{
    ExtHistoBuffer2[shift]=value;
}
//+-----+
//| End                               |
//+-----+
int init()
{
    SetIndexStyle(0, DRAW_LINE, STYLE_SOLID, LineWidth, LineColor);
    SetIndexBuffer(0, ExtHistoBuffer);
    SetIndexStyle(1, DRAW_LINE, STYLE_SOLID, LineWidth, LineColor);
    SetIndexBuffer(1, ExtHistoBuffer2);
    return(0);
}
//+-----+
//|                                     |
//+-----+
int start()
{
//+-----+
//| Local variables                   |
//+-----+
    int shift=0;
    double ma=0;
    double atr=0;
    double KU=0;
    double KL=0;
    SetLoopCount(0);

```

```

// loop from first bar to current bar (with shift=0)
for(shift=Bars-1;shift>=0 ;shift--)
{
//ma=iClose(Symbol(),0,shift+MidOffset);
ma=0.5*(iHigh(Symbol(),0,shift+MidOffset)+iLow(Symbol(),0,shift+MidOffset));
atr=iATR(NULL, 0, ATRPeriod, shift+ATROffset)/2;
KU=ma + ATRMult*atr;
KL=ma - ATRMult*atr;
SetIndexValue(shift, KU);
SetIndexValue2(shift, KL);
}
return(0);
}
//+-----+

```