



Cyncly

FeneVision® Best Practice

Lead Times Lookup Table Guide (BP0186)

Introduction

The purpose of this document is to go into further detail for the setup and maintenance of the Lead Times Lookup Tables possible in CORE. A Lead Time lookup table allows users to adjust lead times throughout the year as they fluctuate. This document will also cover the steps in adding new rows to the lookup table.

Configuration

The configuration for this functionality consists of three parts: a lookup table, an attribute, and a lead time script.

Lookup Table

Below is an example of a basic lookup table setup.

ROW	COL	Lead Time	Purchased Lead Time
Cutting		1	3
Grids		0	7
Insulating		1	3
Laminating		0	7
Shipping (CA)		1	
Shipping (US)		3	
Tempering		1	3

Rows

Each row indicates a process a product might go through. Rows can be added for additional processes and customization.

Columns

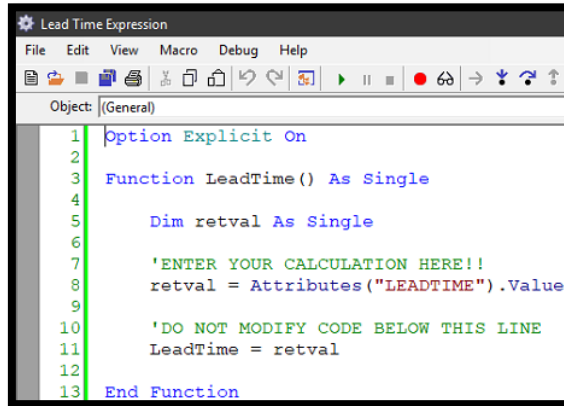
The two base columns are Lead Time and Purchased Lead Time.

- Lead Time – the lead time if this process is done in-house.
- Purchased Lead Time – the lead time if this process is done outside (e.g., vendor).

Additional columns can be added for customization purposes. For example, some customers require lead times per customer. Columns could be added in a “_CustomerID” format to enter customer specific lead times. Note that the lead time attribute must be configured to take advantage of these columns.

Lead Time Expression

Each ordered part in CORE allows for a Lead Time Expression. As part of this configuration, this expression is intended to be uniform across all ordered parts. It simply grabs the lead time value from an attribute which will be described in the next section of this document ([Attributes](#)).



```

1 | Option Explicit On
2 |
3 | Function LeadTime() As Single
4 |
5 |     Dim retval As Single
6 |
7 |     'ENTER YOUR CALCULATION HERE!!
8 |     retval = Attributes("LEADTIME").Value
9 |
10 |     'DO NOT MODIFY CODE BELOW THIS LINE
11 |     LeadTime = retval
12 |
13 | End Function
    
```

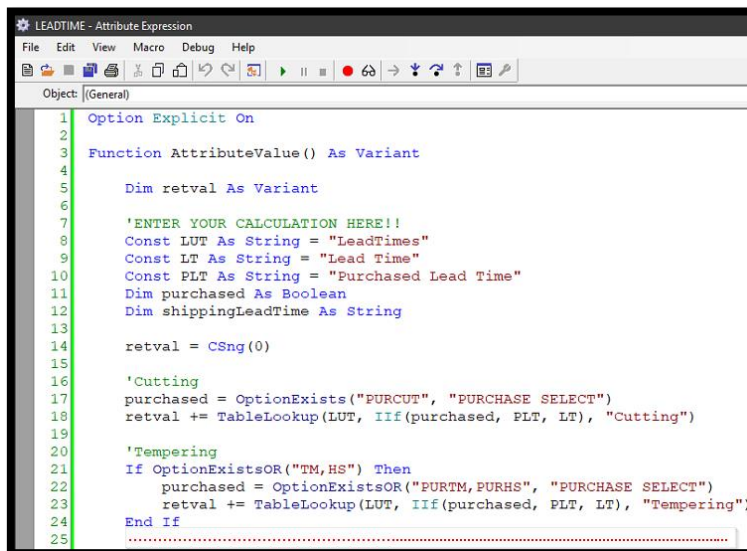
Attributes

This configuration can use two attributes. One that contains all of the logic while the other is simply used for logging how a number was calculated.

LEADTIME Attribute

This attribute should be a System attribute and contains all of the business logic involved in calculating the lead time for an ordered part. No numerical values should be hard coded into the attribute as everything should be coming from the [Lookup Table](#). Constants can be declared at the top for use throughout the script for things that won't change such as the table name and column names.

Below is an image example of a LEADTIME attribute, but a full text example is included in [Appendix A](#).



```

1 | Option Explicit On
2 |
3 | Function AttributeValue() As Variant
4 |
5 |     Dim retval As Variant
6 |
7 |     'ENTER YOUR CALCULATION HERE!!
8 |     Const LUT As String = "LeadTimes"
9 |     Const LT As String = "Lead Time"
10 |    Const PLT As String = "Purchased Lead Time"
11 |    Dim purchased As Boolean
12 |    Dim shippingLeadTime As String
13 |
14 |    retval = CSng(0)
15 |
16 |    'Cutting
17 |    purchased = OptionExists("PURCUT", "PURCHASE SELECT")
18 |    retval += TableLookup(LUT, IIf(purchased, PLT, LT), "Cutting")
19 |
20 |    'Tempering
21 |    If OptionExistsOR("TM,HS") Then
22 |        purchased = OptionExistsOR("PURTM,PURHS", "PURCHASE SELECT")
23 |        retval += TableLookup(LUT, IIf(purchased, PLT, LT), "Tempering")
24 |    End If
25 |
    
```

The script is designed to set the starting lead time as 0 and then a dedicated section for each row in the lookup table adds to that lead time under certain conditions. Each section also needs to be aware of whether that given process is purchased or not in order to use the correct column from the lookup table.

In the above example, Cutting doesn't have a condition as that always happens. Tempering has a condition on line 21 checking to ensure a tempered process option code exists on the line item.



LEADTIMEPATH Attribute

This attribute is optional. It is used report the path that was taken to calculate the number returned by the [LEADTIME Attribute](#). The attribute should be a System attribute that is hard coded as an empty string.

Inside the LEADTIME attribute, a path variable is dimensioned as a String. This variable is then appended to during each section when that section adds to the lead time. The format can be whatever is required, but an example result could be "Cutting (1) + Tempering (1) = 2". Below is an example of how to implement this. See [Appendix B](#) for an example of this logic.

```
7 'ENTER YOUR CALCULATION HERE!!
8 Const LUT As String = "LeadTimes"
9 Const LT As String = "Lead Time"
10 Const PLT As String = "Purchased Lead Time"
11 Dim purchased As Boolean
12 Dim process As String
13 Dim processLeadTime As Single
14 Dim shippingLeadTime As String
15 Dim path As String
16
17 retval = CSng(0)
18 path = ""
19
20 'Cutting
21 process = "Cutting"
22 purchased = OptionExists("PURCUT", "PURCHASE SELECT")
23 processLeadTime = TableLookup(LUT, IIf(purchased, PLT, LT), process)
24 retval += processLeadTime
25 path &= StringFormat("{0} ({1}) + ", process, processLeadTime)
26
27 'Tempering
28 If OptionExistsOR("TM,HS") Then
29     process = "Tempering"
30     purchased = OptionExistsOR("PURTM,PURHS", "PURCHASE SELECT")
31     processLeadTime = TableLookup(LUT, IIf(purchased, PLT, LT), process)
32     retval += processLeadTime
33     path &= StringFormat("{0} ({1}) + ", process, processLeadTime)
34 End If
35
36 '...
37
38 path &= StringFormat(" = {0}", retval)
39 Attributes("LEADTIMEPATH").Value = path
```

Testing

To test that lead times are calculating correctly, Order Entry is the best tool. If the calculated dates do not make sense, the LEADTIME attribute can be debugged like any other attribute in Part Setup. If the customer is asking questions about the calculation, consider implementing the LEADTIMEPATH attribute functionality so users can run a part breakdown and see how the calculation worked.



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Appendix A – Simple LEADTIME Attribute

Option `Explicit` On

```
Function AttributeValue() As Variant
```

```
    Dim retval As Variant
```

```
    'ENTER YOUR CALCULATION HERE!!
```

```
    Const LUT As String = "LeadTimes"
```

```
    Const LT As String = "Lead Time"
```

```
    Const PLT As String = "Purchased Lead Time"
```

```
    Dim purchased As Boolean
```

```
    Dim shippingLeadTime As String
```

```
    retval = CSng(0)
```

```
    'Cutting
```

```
    purchased = OptionExists("PURCUT", "PURCHASE SELECT")
```

```
    retval += TableLookup(LUT, IIf(purchased, PLT, LT), "Cutting")
```

```
    'Tempering
```

```
    If OptionExistsOR("TM,HS") Then
```

```
        purchased = OptionExistsOR("PURTM,PURHS", "PURCHASE SELECT")
```

```
        retval += TableLookup(LUT, IIf(purchased, PLT, LT), "Tempering")
```

```
    End If
```

```
    'Insulating
```

```
    If OptionExistsOR("DOUBLE,TRIPLE") Then
```

```
        purchased = OptionExists("PURUNIT", "PURCHASING")
```

```
        retval += TableLookup(LUT, IIf(purchased, PLT, LT), "Insulating")
```

```
    End If
```

```
    'Grids
```

```
    If GroupExists("GRID MATERIAL") Then
```

```
        purchased = OptionExists("PURGRID", "PURCHASE SELECT")
```

```
        retval += TableLookup(LUT, IIf(purchased, PLT, LT), "Grids")
```

```
    End If
```

```
    'Shipping
```

```
    purchased = False
```

```
    shippingLeadTime = "Shipping (CA)"
```

```
    Select Case UCase(Order.ShipCountry)
```

```
    Case "US", "USA", "UNITED STATES", "UNITED STATES OF AMERICA"
```

```
        shippingLeadTime = Replace(shippingLeadTime, "(CA)", "(US)")
```

```
    End Select
```

```
    retval += TableLookup(LUT, IIf(purchased, PLT, LT), shippingLeadTime)
```

```
    'DO NOT MODIFY CODE BELOW THIS LINE
```

```
    AttributeValue = retval
```

```
End Function
```

Appendix B – Path LEADTIME Attribute

Option `Explicit` On

```
Function AttributeValue() As Variant
```

```
    Dim retval As Variant

    'ENTER YOUR CALCULATION HERE!!
    Const LUT As String = "LeadTimes"
    Const LT As String = "Lead Time"
    Const PLT As String = "Purchased Lead Time"
    Dim purchased As Boolean
    Dim process As String
    Dim processLeadTime As Single
    Dim shippingLeadTime As String
    Dim path As String

    retval = CSng(0)
    path = ""

    'Cutting
    process = "Cutting"
    purchased = OptionExists("PURCUT", "PURCHASE SELECT")
    processLeadTime = TableLookup(LUT, IIf(purchased, PLT, LT), process)
    retval += processLeadTime
    path &= StringFormat("{0} ({1}) + ", process, processLeadTime)

    'Tempering
    If OptionExistsOR("TM,HS") Then
        process = "Tempering"
        purchased = OptionExistsOR("PURTM,PURHS", "PURCHASE SELECT")
        processLeadTime = TableLookup(LUT, IIf(purchased, PLT, LT), process)
        retval += processLeadTime
        path &= StringFormat("{0} ({1}) + ", process, processLeadTime)
    End If

    '...

    path &= StringFormat(" = {0}", retval)
    Attributes("LEADTIMEPATH").Value = path
```