



There is a lot packed into the June ACEIT E-News. Our [‘Tip of the Month’](#) is back and discusses the lookup function in ACE. A [Hotfix for the NAFCOM plug-in](#) is now available; read what this Hotfix will do. We are announcing this year’s [‘Call for Papers’](#) for our 2nd Annual User Conference. Also, don’t miss the preview of the presentations that will be given at this year’s ISPA/SCEA Conference. All in this month’s E-News!

Mark your calendars! 2nd Annual ACEIT User Conference, 14-16 January 2008.

Tip of the Month: There’s a lookup Function in ACE?

Did you know that ACE contains a lookup function much like Excel’s HLOOKUP? ACE’s StepVal function allows you to model quantity discount type relationships. The function has the following syntax:
StepVal(xval, @x, @f_of_x, num_steps)

Where: xval is the value or mathematical expression to evaluate (e.g., buy quantity)
@x is the row where the array of values defining the highest value is stored
@f_of_x is the row where the value to retrieve is stored
num_steps is the number of values in the @x array

The example session entitled “03 – Enhancing the Production Estimate” contains an example of the StepVal function on rows 29 and 40. A simplified example is shown below. Note how the StepVal function does not require an exact match to find the appropriate unit cost.

Model Inputs:

| WBS/CES Description | Approp | Unique ID | Baseline | Phasing Method | Equation / Throughput | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 |
|-----------------------------------|--------|-----------|--------------|----------------|--|---------|---------|---------|---------|---------|---------|
| Lookup Function Example | 3010 | | \$ 195.000 * | F | if(xval>0, StepVal(FYCVAl(@xval), @x, @f_of_x, num_steps)) | | | | | | |
| *INPUT VARIABLES | | *IN_VAR | | | | | | | | | |
| Buy Quantity | | xval | 196.000 * | IS | [Input Throughput] | 15 | 30 | 100 | 1 | 50 | |
| * StepVal setup | | | | | | | | | | | |
| Max Quantity values for each cost | | x | | I | [Input Throughput] | 3 | 10 | 20 | 40 | 60 | 1000 |
| Cost at max value or less | 3010 | f_of_x | * | BY | [Cost Throughput] | 100 | 75 | 50 | 30 | 10 | 5 |

Model Results:

| | WBS/CES Description | Total | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 |
|---|-----------------------------------|------------|------------|-----------|-----------|------------|-----------|----------|
| 1 | Lookup Function Example | \$ 195.000 | \$ 50.000 | \$ 30.000 | \$ 5.000 | \$ 100.000 | \$ 10.000 | |
| 2 | | | | | | | | |
| 3 | *INPUT VARIABLES | | | | | | | |
| 4 | Buy Quantity | 196.000 | 15.000 | 30.000 | 100.000 | 1.000 | 50.000 | |
| 5 | | | | | | | | |
| 6 | * StepVal setup | | | | | | | |
| 7 | Max Quantity values for each cost | | 3.000 | 10.000 | 20.000 | 40.000 | 60.000 | 1000.000 |
| 8 | Cost at max value or less | | \$ 100.000 | \$ 75.000 | \$ 50.000 | \$ 30.000 | \$ 10.000 | \$ 5.000 |
| 9 | Number of Steps | 6.000 | | | | | | |

ACEIT Highlight: NAFCOM Plug-In Hotfix Available

A Hotfix has been posted on aceit.com to address the following:

Fixes:

- Updated the NAFCOM Plug-in to work with NAFCOM 2006 data files
- Updated NAFCOM Plug-in to work with data files containing non-integer IDs. Refresh is no longer a problem with these files

Please download the NAFCOM [Hotfix 7.0a-004](#) found at **Support > Downloads > Software Patches** and extract the files from the zip file to your PlugIns directory. .

Training Highlight

Announcement of the 2nd Annual User Conference – Call for Papers

Tecolote Research, Inc. is pleased to announce that it will be holding its 2nd Annual ACEIT User Conference **14-16 January 2008** in Santa Barbara, California.

We would like to invite you to submit papers and/or presentations that relate to ACEIT "best practices" to be considered for this year’s User Conference. Additional information and submission form for the [‘Call for Papers’](#) available on the ACEIT User Conference website.

For complete details and to register visit the [ACEIT User Conference website](#).



Presentations at ISPA/SCEA

Please come and join us at this year’s ISPA/SCEA International Conference and Workshop in New Orleans. We will be presenting several papers; here’s a preview.

Cost Risk Allocation Objectives, Tendencies, and Limitations – John Sandberg

This paper examines general tendencies, trade-offs, and objectives of cost risk allocation heuristic alternatives with focus on the quantification and verification of the allocated results. Some important limitations of existing heuristics are discussed, followed by recommendations on how to capture these in future allocation methods. The presentation equips the cost analyst to better understand, produce, and defend cost risk allocated reports.

Examination of Functional Correlation and Its Impact on Risk Analysis - Alfred Smith

This paper describes the difference between functional and applied correlation, identifies how functional correlation is introduced into a model, describes how to measure it and demonstrates, in quantitative terms, the impacts of functional versus applied correlation on the uncertainty analysis.

Why ZMPE When You Can MUPE? - Dr. Shu-Ping Hu and Alfred Smith

This paper examines the properties, pros and cons of the MUPE and ZMPE regression methods used to develop CERs. It further evaluates whether the estimated multiplicative CERs derived from these methods are actually unbiased. Since the derived CERs and the corresponding prediction intervals are used to quantify the cost estimating risk, using a validated and supportable method is essential to cost uncertainty analysis. The conclusions identified in this paper form the basis for the decision to use the MUPE regression technique to develop the USCM9 CERs.

Training Schedule

Upcoming ACEIT Training

June 2007 – September 2007 classes are listed below. For a complete listing of all upcoming training and course descriptions, check the [ACEIT training schedule](#).

| | Jun | Jul | Aug | Sep |
|--|--------------------------|-------------------------------------|-------------------------|-----------------------------------|
| Automated Reports and Presentations Using Excel with POST (POST) | | | | 13-14 Herndon, VA |
| Basic ACEIT 7.0 (Basic ACEIT) | | 10-13 WDC | 7-10 LA | 18-21 WDC |
| Basic RI&K Analysis in ACE (RI&K) | 18-19 LA | | | 11-12 Herndon, VA |
| Training Bundle - 4 Day (Basic RI&K/POST) | | | | 11-14 Herndon, VA |
| Training Bundle - 4 Day (In Depth ACE/ POST) | | 16-19 Las Vegas, NV | | |

On-Site and Mechanics Training are available; contact our [Training Coordinator](#) for more information.

ACEIT Support:

aceit_support@tecolote.com

(805) 964-6964 ext. 211

ACEIT Sales & Training:

aceit_sales@tecolote.com

(805) 964-6964 ext. 151



You are receiving this e-mail because you have attended ACEIT training or are a current ACEIT user. If you wish to unsubscribe to our e-mail notifications, reply to this e-mail with REMOVE as the subject.
Copyright © 2007 Tecolote Research, Inc.

