

Silo - Feature # 924: namespaces with external arrays are difficult to construct

Status:	Resolved	Priority:	Normal
Author:	Mark Miller	Category:	
Created:	12/19/2011	Assigned to:	
Updated:	01/17/2013	Due date:	
Impact:	4 - High		
Expected Use:	3 - Occasional		
OS:	All		
Support Group:	Any		
Subject:	nameschemes with external arrays are difficult to construct		
Description:	<p>This is from Cyrus Harrison.</p> <p>1) To use the nameschemel found that I need to parse the namespace expressions in order to get names & types of the external variable names. You already have the parsing code that handles these complex expressions. It seems like it would be nicer to take care of this in Silo? So each customer of the API doesn't have to write their own error prone parsing to pick up the array names and types. As an alternative, I supposed we could adopt a convention that provides these outside of the ns string, but that seems kludgely as well.</p> <p>Ideal use case:</p> <p>Calling:</p> <pre>DBnamespace ns = DBMakenamespace(DBfile *file, cptr);</pre> <p>Would fetch the silo vars that correspond the the external arrays and set everything up. Optional args could allow you to set the root Silo path to the arrays & override arguments.</p> <pre>DBnamespace ns = DBMakenamespace(cptr, ".", evar1_override,...); DBnamespace ns = DBMakenamespace(cptr, "some/other/path/", evar1_override,...);</pre> <p>What do you think? This would of course require a change to the Silo API.</p> <p>2) I tried wrapping DBMakeNamescheme to accomplish something similar to this, but I ran into an issue with varargs.</p> <p>I don't think there is a portable way to construct va_list outside of a varargs function - this is due to the fact that C varargs is mostly compiler magic.</p> <p>So even armed with a list of external arrays, I have no way to correctly call DBMakeNamescheme.</p>		

History

08/31/2012 03:57 am - Mark Miller

- Impact changed from 3 - Medium to 4 - High

01/17/2013 07:49 pm - Mark Miller

- Status changed from New to Resolved