

ScalES-PPM - Bug # 343

Status:	New	Priority:	Normal
Author:	Matthew Krupcale	Category:	
Created:	09/25/2017	Assignee:	
Updated:	10/14/2017	Due date:	
Subject:	ACX_FORTRAN_RUN_CHECK_SIZEOF in acx_fc_real_size.m4 does not check size of its argument		
Description			
<p>The function ACX_FORTRAN_RUN_CHECK_SIZEOF in m4/acx_fc_real_size.m4 does not actually check for the size of the real type passed as its argument, similar to the analogous function _ACX_FORTRAN_CHECK_SIZEOF_INTEGRAL_TYPE_RUN in m4/acx_fc_integer_size.m4 for integer types.</p> <p>Furthermore, when using this function, the bits division arithmetic,</p> <pre>AS_VAR_SET([acx_fortran_Sizeof],[`expr]AS_VAR_GET([acx_fortran_Sizeof])[/ \$acx_cv_c_char_bits`])</pre> <p>was returning some shell errors stating that expr was missing an operator, and that / is a directory. This seems to be due to the multiple nests of eval which come with AS_VAR_SET and AS_VAR_GET. It was easier to just do what was intended using the specifically designed method AS_VAR_ARITH, rather than using the more general AS_VAR_SET with expr.</p> <p>The attached patch fixes these two issues.</p>			

History

#1 - 10/14/2017 05:25 pm - Matthew Krupcale

- File scales-ppm-1.0.5-acx_fc_real_size.patch added

The latest release of 1.0.5 fixes the second issue noted regarding the division arithmetic, but the first issue remains: the real type passed as the first argument to ACX_FORTRAN_RUN_CHECK_SIZEOF is not checked for its size; rather, the specific type real is checked.

The attached patch is updated for the latest release 1.0.5 to fix this issue.

Files

scales-ppm-acx_fc_real_size.patch	893 Bytes	09/25/2017	Matthew Krupcale
scales-ppm-1.0.5-acx_fc_real_size.patch	498 Bytes	10/14/2017	Matthew Krupcale