

## Compatibility Between ESDM and NetCDF4

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Work Package: Work Package 4 Exploitability

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## 1 Files From Directory nc\_test4

Filename	Compatible	Almost Compatible	Not Compatible Yet	Almost Incompatible	Incompatible
$cdm\_sea\_soundings.c$					
$\operatorname{test\_szip.c}$					
tst_atts1.c					
$tst\_atts2.c$					
$tst\_atts3.c$					
$tst\_atts.c$					
$tst\_attsperf.c$					
$tst\_bug324.c$					
$tst\_camrun.c$					
$tst\_chunks2.c$					
$tst\_chunks3.c$					
$tst\_chunks.c$					
$tst\_compounds2.c$					
$tst\_compounds3.c$					
tst_converts2.c					
$tst\_converts.c$					
$tst\_coords2.c$					
$tst\_coords3.c$					
tst_coords.c					
tst_create_files.c					
$tst\_dims2.c$					
tst_dims3.c					
tst_empty_vlen_unlim.c					
tst_endian_fill.c					
tst_enums.c					
tst_files4.c					
tst_files6.c					
tst_files.c					
tst_fill_attr_vanish.c					
tst_fillbug.c					
tst_fills2.c					
tst_fills.c					
tst_grps2.c					
tst_grps.c					
$tst\_h5\_endians.c$					
tst_hdf5_file_compat.c					
tst_h_refs.c					
tst_h_scalar.c					
tst_h_strbug.c					
tst_interops5.c					
tst_interops6.c					
tst_interops.c					
tst_large2.c					
tst_large.c					
tat_tatge.c					

Table 1.1

Filename	Compatible	Almost	Not Compatible	Almost	Incompatible
		Compatible	Yet	Incompatible	
$tst\_mem.c$					
$tst\_mode.c$					
$tst\_opaques.c$					
$tst\_parallel.c$					
$tst\_put\_vars.c$					
$tst\_rename2.c$					
$tst\_rename.c$					
$tst\_simplerw\_coll\_r.c$					
$tst\_strings2.c$					
$tst\_strings.c$					
tst_sync.c					
$tst\_types.c$					
$tst\_udf.c$					
tst_unlim_vars.c					
tst_utf8.c					
$tst\_v2.c$					
$tst\_varms.c$					
$tst\_vars2.c$					
$tst\_vars3.c$					
$tst\_vars4.c$					
tst_vars.c					
$tst\_vl.c$					
h5testszip.c	<b>√</b>				
$tst\_atts\_string\_rewrite.c$	<b>√</b>				
tst_elatefill.c	<b>√</b>				
tst_files3.c	<b>√</b>				
tst_files5.c	<b>√</b>				
tst_filterparser.c	<b>√</b>				
$tst\_mpi\_parallel.c$	✓				
tst_rehash.c	<b>√</b>				
$t_{-}type.c$	<b>√</b>				

Table 1.2

Filename	Justification
cdm_sea_soundings.c	ESDM does not support compound datatypes from NetCDF
test_szip.c	NetCDF Feature not supported with ESDM
tst_atts1.c	**
tst_atts2.c	
tst_atts3.c	
tst_atts.c	
tst_attsperf.c	
tst_bug324.c	
tst_camrun.c	
$tst\_chunks2.c$	NetCDF Feature not supported with ESDM
tst_chunks3.c	NetCDF Feature not supported with ESDM
tst_chunks.c	NetCDF Feature not supported with ESDM
$tst\_compounds2.c$	ESDM does not support compound datatypes from NetCDF
tst_compounds3.c	ESDM does not support compound datatypes from NetCDF
tst_converts2.c	X
tst_converts.c	
tst_coords2.c	
tst_coords3.c	
tst_coords.c	
tst_create_files.c	
$tst\_dims2.c$	
$tst\_dims3.c$	
tst_empty_vlen_unlim.c	
tst_endian_fill.c	
tst_enums.c	
tst_files4.c	
tst_files6.c	
tst_files.c	
tst_fill_attr_vanish.c	
tst_fillbug.c	
tst_fills2.c	
tst_fills.c	
tst_grps2.c	NOT IMPLEMENTED YET
tst_grps.c	NOT IMPLEMENTED YET
tst_h5_endians.c	NOT IMPLEMENTED YET
tst_hdf5_file_compat.c	
tst_h_refs.c	
tst_h_scalar.c	
tst_h_strbug.c	
tst_interops5.c	
tst_interops6.c	
tst_interops.c	
tst_large2.c	
tst_large.c	

Table 1.3

Filename	Justification
$tst\_mem.c$	
$tst\_mode.c$	NOT IMPLEMENTED YET
$tst\_opaques.c$	NOT IMPLEMENTED YET
tst_parallel.c	
tst_put_vars.c	
$tst\_rename2.c$	
tst_rename.c	
tst_simplerw_coll_r.c	
tst_strings2.c	
$tst\_strings.c$	
tst_sync.c	
$tst\_types.c$	NOT IMPLEMENTED YET
$tst\_udf.c$	
tst_unlim_vars.c	
$tst\_utf8.c$	
$tst\_v2.c$	
$tst\_varms.c$	
$tst\_vars2.c$	
$tst\_vars3.c$	
$tst\_vars4.c$	
$tst\_vars.c$	
$tst\_vl.c$	NOT IMPLEMENTED YET
h5testszip.c	Working
$tst\_atts\_string\_rewrite.c$	Working
$tst\_elatefill.c$	Working
$tst\_files3.c$	Working
$tst\_files5.c$	Working
$tst\_filterparser.c$	Working
$tst\_mpi\_parallel.c$	Working
$tst\_rehash.c$	Working
$t_{-}type.c$	Working

Table 1.4: Additional comments on ESDM and NETCDF compatibility  $\,$ 

File	Not Tested	Not Working Build	Not Working Run	Working
bigmeta.c	✓			
openbigmeta.c	<b>√</b>			
${ m bm\_file.c}$		✓		
bm_many_atts.c		✓		
bm_many_objs.c		✓		
$bm\_netcdf4\_recs.c$		✓		
ref_bzip2.c		✓		
test_filter.c		✓		
test_filter_misc.c		✓		
$tst_ar4_3d.c$		✓		
$tst_ar4_4d.c$		✓		
$tst\_ar4.c$		✓		
tst_files2.c		✓		
tst_h_many_atts.c		✓		
$tst\_knmi.c$		✓		
$tst\_put\_vars\_two\_unlim\_dim.c$		✓		
$tst\_utils.c$		✓		
$tst\_compounds.c$			✓	
${\rm tst\_dims.c}$			<b>√</b>	
$tst\_interops4.c$			✓	
tst_nc4perf.c			✓	
$tst\_parallel3.c$			<b>√</b>	
$tst\_parallel4.c$			✓	
$tst\_parallel5.c$			✓	
$tst\_xplatform2.c$			✓	
$tst\_xplatform.c$			<b>√</b>	

Table 1.5: List of nc\_test4 files.

File	Not Tested	Not Working Build	Not Working Run	Working
renamegroup.c				✓
$test\_szip.c$				<b>√</b>
$tst\_atts1.c$				<b>√</b>
tst_atts2.c				<b>√</b>
tst_atts3.c				<b>√</b>
tst_atts.c				<b>√</b>
$tst\_attsperf.c$				<b>√</b>
tst_atts_string_rewrite.c				<b>√</b>
tst_bug324.c				<b>√</b>
tst_camrun.c				<b>√</b>
tst_chunks2.c				<b>√</b>
tst_chunks3.c				<b>√</b>
tst_chunks.c				<b>√</b>
tst_compounds2.c				<b>√</b>
tst_compounds3.c				√
tst_converts2.c				<b>√</b>
tst_converts.c				<b>√</b>
tst_coords2.c				<b>√</b>
tst_coords3.c				<b>√</b>
tst_coords.c				<b>√</b>
tst_create_files.c				<b>√</b>
tst_dims2.c				<b>√</b>
tst_dims3.c				<b>√</b>
tst_elatefill.c				<b>√</b>
tst_empty_vlen_unlim.c				<b>√</b>
tst_endian_fill.c				<b>∨</b>
tst_enums.c				<b>∨</b>
tst_files3.c				<b>∨</b>
tst_files4.c				<b>∨</b>
tst_files5.c				<b>√</b>
tst_files6.c				<b>√</b>
tst_files.c				<b>∨</b>
tst_fill_attr_vanish.c				·
				<b>√</b>
tst_fillbug.c tst_fills2.c				<b>√</b>
tst_fills2.c tst_fills.c				<b>√</b>
				<b>√</b>
tst_filterparser.c				<b>√</b>
tst_grps2.c				<b>√</b>
tst_grps.c				<b>√</b>
tst_h5_endians.c				<b>√</b>
tst_hdf5_file_compat.c				<b>√</b>
tst_h_refs.c				<b>√</b>
tst_h_scalar.c				<b>√</b>
tst_h_strbug.c				<b>√</b>
tst_interops5.c				<b>√</b>
tst_interops6.c				<b>√</b>
tst_interops.c				<b>√</b>
tst_large2.c				✓
tst_large.c				✓
$tst\_mem.c$				✓

File	Not Tested	Not Working Build	Not Working Run	Working
$tst\_mode.c$				<b>√</b>
$tst\_mpi\_parallel.c$				<b>√</b>
$tst\_opaques.c$				<b>√</b>
$tst\_parallel.c$				<b>√</b>
$tst\_put\_vars.c$				<b>√</b>
$tst\_rehash.c$				<b>√</b>
$tst\_rename2.c$				<b>√</b>
$tst\_rename.c$				<b>√</b>
$tst\_simplerw\_coll\_r.c$				<b>√</b>
$tst\_strings2.c$				<b>√</b>
$tst\_strings.c$				<b>√</b>
tst_sync.c				<b>√</b>
$tst\_types.c$				<b>√</b>
$tst\_udf.c$				<b>√</b>
$tst\_unlim\_vars.c$				$\checkmark$
$tst\_utf8.c$				<b>√</b>
$tst_v2.c$				<b>√</b>
$tst\_varms.c$				<b>√</b>
$tst\_vars2.c$				<b>√</b>
$tst\_vars3.c$				<b>√</b>
$tst\_vars4.c$				<b>√</b>
$tst\_vars.c$				<b>√</b>
$tst\_vl.c$				<b>√</b>
$t_{t}$				<b>√</b>

Table 1.7: List of nc\_test4 files.