

# OpenRTM-aist (C++) - #2507

ARM<->i386 double

08/10/2012 11:57 AM - n-ando

<b>Status:</b>		<b>Start date:</b>	08/10/2012
<b>Priority:</b>		<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			

## Description

ARM<->i386 double

### ARM SeqOutComp

```
--: 131.345 131.12 131 131 131[ ]  
0: 1301.35 1301.12 1301 1301 31[ ]  
1: 1302.35 1302.12 1302 1302 32[ ]  
2: 1303.35 1303.12 1303 1303 33[!]  
3: 1304.35 1304.12 1304 1304 34["]  
4: 1305.35 1305.12 1305 1305 35[#]  
5: 1306.35 1306.12 1306 1306 36[$]  
6: 1307.35 1307.12 1307 1307 37[%]  
7: 1308.35 1308.12 1308 1308 38[&  
8: 1309.35 1309.12 1309 1309 39[']  
9: 1310.35 1310.12 1310 1310 40[(
```

### i386 SeqInComp

	Double	Float	Long	Short	Octet
Basic type					
	9.45875e-013	131.12	131	131	131[ ]
Sequence type					
0:	1.99916e+037	1301.12	1301	1301	31[ ]
1:	1.99916e+037	1302.12	1302	1302	32[ ]
2:	1.99916e+037	1303.12	1303	1303	33[!]
3:	1.99916e+037	1304.12	1304	1304	34["]
4:	1.99916e+037	1305.12	1305	1305	35[#]
5:	1.99916e+037	1306.12	1306	1306	36[\$]
6:	1.99916e+037	1307.12	1307	1307	37[%]
7:	1.99916e+037	1308.12	1308	1308	38[&]
8:	1.99916e+037	1309.12	1309	1309	39[']
9:	1.99916e+037	1310.12	1310	1310	40[(

double

### i386 SeqOutComp

```
--: 24.345 24.12 24 24 24[ ]
```

```

0: 231.345 231.12 231 231 231[ ]
1: 232.345 232.12 232 232 232[ ]
2: 233.345 233.12 233 233 233[ ]
3: 234.345 234.12 234 234 234[ ]
4: 235.345 235.12 235 235 235[ ]
5: 236.345 236.12 236 236 236[ ]
6: 237.345 237.12 237 237 237[ ]
7: 238.345 238.12 238 238 238[ ]
8: 239.345 239.12 239 239 239[ ]
9: 240.345 240.12 240 240 240[ ]

```

## ARM SeqInComp

	Double	Float	Long	Short	Octet
Basic type					
	-8.67922e+209	24.12	24	24	24 [ ]
Sequence type					
0:	9.45875e-13	231.12	231	231	231 [ ]
1:	9.45875e-13	232.12	232	232	232 [ ]
2:	9.45875e-13	233.12	233	233	233 [ ]
3:	9.45875e-13	234.12	234	234	234 [ ]
4:	9.45875e-13	235.12	235	235	235 [ ]
5:	9.45875e-13	236.12	236	236	236 [ ]
6:	9.45875e-13	237.12	237	237	237 [ ]
7:	9.45875e-13	238.12	238	238	238 [ ]
8:	9.45875e-13	239.12	239	239	239 [ ]
9:	9.45875e-13	240.12	240	240	240 [ ]

- ARM (C++) -> i386 (Python) double ARM omniORB

## History

#1 - 08/10/2012 12:08 PM - n-ando

- omniORB-4.1.2

## omniORB-4.1.2

```

./configure --prefix=$PREFIX \
  CXX=/usr/bin/arm-linux-gnueabi-g++ \
  CC=/usr/bin/arm-linux-gnueabi-gcc \
  CXXFLAGS=-s \
  CFLAGS=-s \
  --build=i386-linux-gnu \
  --host=arm-linux-gnueabi \
  --target=arm-linux-gnu \
  --with-omniorb=/usr/arm-linux-gnueabi \
  --with-includes=-I/usr/arm-linux-gnueabi/include

```

make clean

```

make CC=gcc -C src/tool/omniidl/cxx/cccp
make CXX=g++ -C src/tool/omniidl/cxx
make CC=gcc-3.4 -C src/tool/omkdepend

```

make

||||

## #2 - 08/10/2012 03:33 PM - n-ando

CORBA::Double ||||| omniORB4/cdrStream.h |||inline |||||

```
friend inline void operator>>= (_CORBA_Double a, cdrStream& s) {
  struct LongArray2 { _CORBA_ULong l[2]; };
  convertFromFloat(_CORBA_Double, LongArray2);
  if (s.pd_marshal_byte_swap) {
    LongArray2 m;
    m.l[0] = Swap32(l.l[1]);
    m.l[1] = Swap32(l.l[0]);
    l = m;
  }
#ifdef OMNI_MIXED_ENDIAN_DOUBLE
  {
    _CORBA_ULong v = l.l[0];
    l.l[0] = l.l[1];
    l.l[1] = v;
  }
#endif
  CdrMarshal(s, LongArray2, omni::ALIGN_8, 1);
}
```

||||OMNI\_MIXED\_ENDIAN\_DOUBLE |||||
OMNI\_MIXED\_ENDIAN\_DOUBLE ||CORBA\_sysdep.h |||||

```
#if defined(__arm__)
# if defined(__armv5teb__)
# define NO_OMNI_MIXED_ENDIAN_DOUBLE
# else
# define OMNI_MIXED_ENDIAN_DOUBLE
# endif
#endif
```

||||

<http://marc.info/?l=omniorb-list&m=130929162028726&w=4>

|||||\_\_VFP\_FP\_\_ ||||| NO\_OMNI\_MIXED\_ENDIAN\_DOUBLE |||||

||||

```
#if defined(__arm__)
# if defined(__armv5teb__) || defined(__VFP_FP__)
# define NO_OMNI_MIXED_ENDIAN_DOUBLE
# else
# define OMNI_MIXED_ENDIAN_DOUBLE
# endif
#endif
```

|||||

Double ||operator>>= |||||OpenRTM |||||RTC |||||
|||||omniORB |||||



#4 - 08/10/2012 05:09 PM - n-ando

□ □

omniORB-4.1.6 OpenRTM  
omniORB-4.1.5

omniORB

#5 - 08/10/2012 05:14 PM - n-ando

- File omniorb\_crosbuild.sh added

#6 - 08/10/2012 05:14 PM - n-ando

- Status changed from □□ to □□

- % Done changed from 0 to 100

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#7 - 04/15/2013 05:45 PM - n-ando

- Status changed from □□ to □□

Files

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omniorb_crosbuild.sh	2.11 KB	08/10/2012	n-ando
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