



ITU G.722.2



# EXPERIMENT 9.8

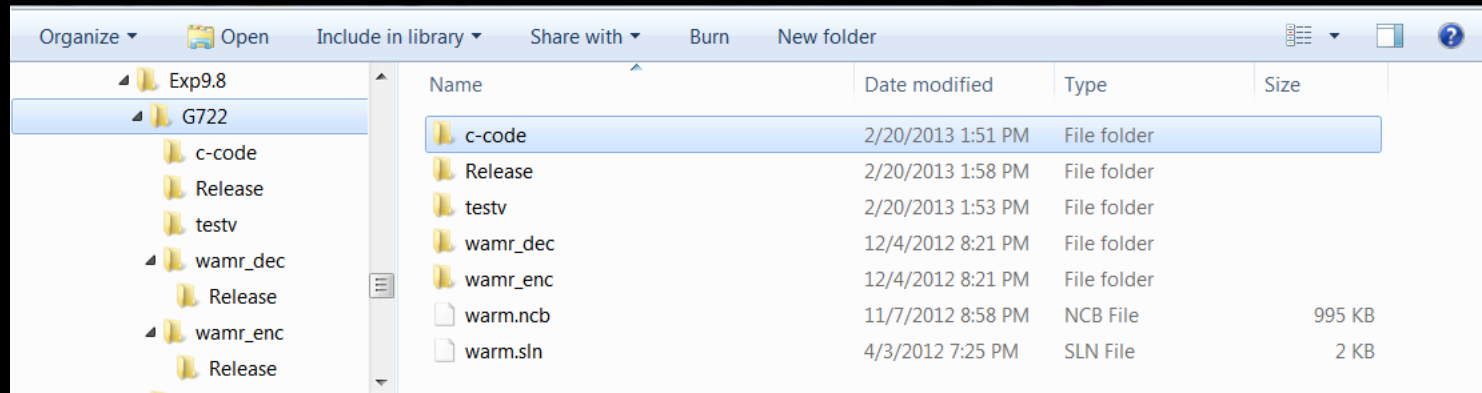


# Propose of the experiment

- G.722.2 is a wideband speech codec. This experiment shows how to build the G.722.2 on a PC using Microsoft Visual C.
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# Experiment Folder Structure

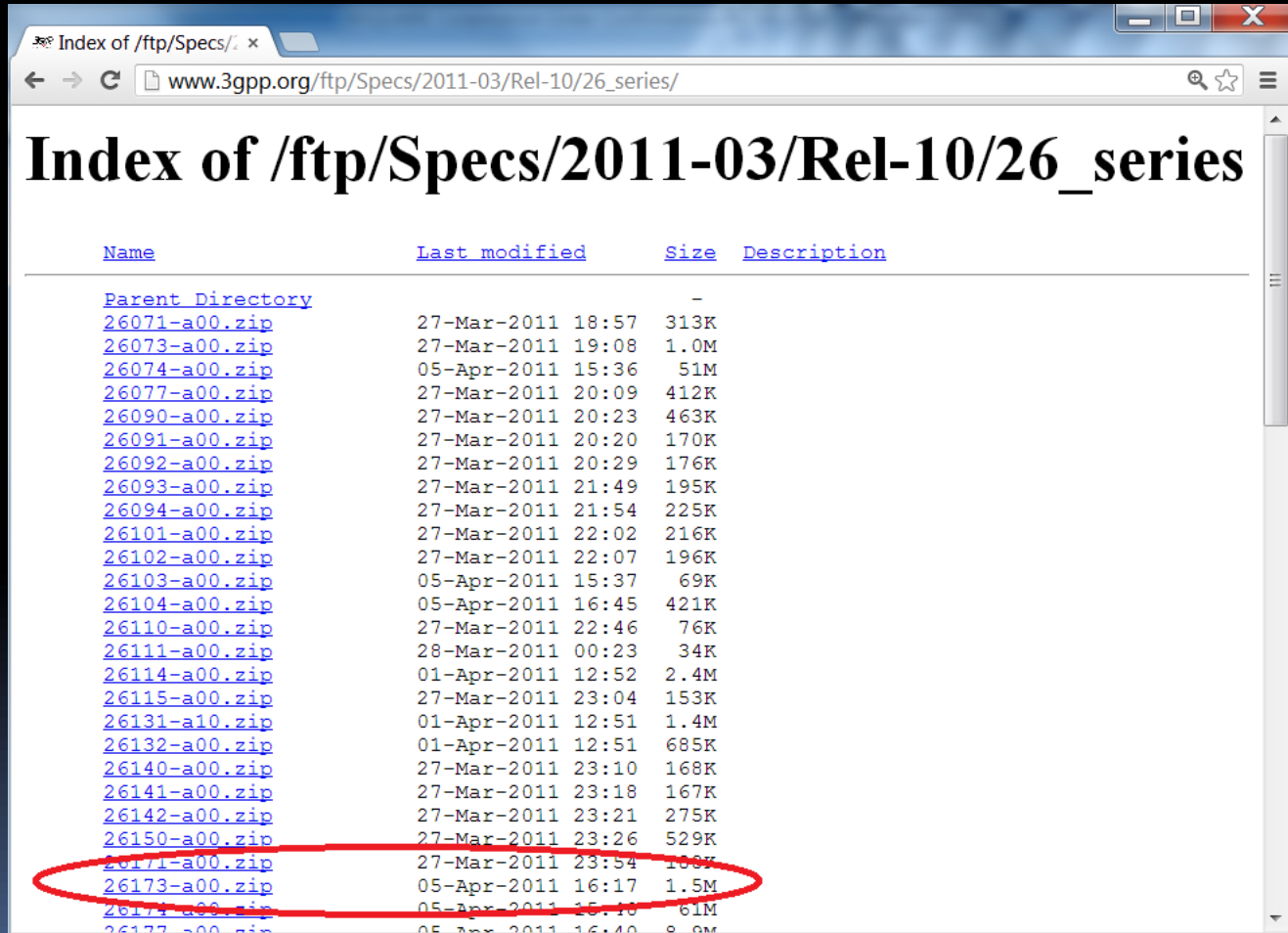
(Exp9.8 G.722.2 Experiment)



- c-code folder contains source code
- Release folder contains the experiment executable programs.
- testv folder contains test vectors.
- wamr\_dec folder contains decoder VC project.
- wamr\_enc folder contains encoder VC project.

# Download Software

([http://www.3gpp.org/ftp/Specs/2011-03/Rel-10/26\\_series/](http://www.3gpp.org/ftp/Specs/2011-03/Rel-10/26_series/))




Index of /ftp/Specs/2011-03/Rel-10/26\_series

<a href="#">Name</a>	<a href="#">Last modified</a>	<a href="#">Size</a>	<a href="#">Description</a>
<a href="#">Parent Directory</a>		-	
<a href="#">26071-a00.zip</a>	27-Mar-2011 18:57	313K	
<a href="#">26073-a00.zip</a>	27-Mar-2011 19:08	1.0M	
<a href="#">26074-a00.zip</a>	05-Apr-2011 15:36	51M	
<a href="#">26077-a00.zip</a>	27-Mar-2011 20:09	412K	
<a href="#">26090-a00.zip</a>	27-Mar-2011 20:23	463K	
<a href="#">26091-a00.zip</a>	27-Mar-2011 20:20	170K	
<a href="#">26092-a00.zip</a>	27-Mar-2011 20:29	176K	
<a href="#">26093-a00.zip</a>	27-Mar-2011 21:49	195K	
<a href="#">26094-a00.zip</a>	27-Mar-2011 21:54	225K	
<a href="#">26101-a00.zip</a>	27-Mar-2011 22:02	216K	
<a href="#">26102-a00.zip</a>	27-Mar-2011 22:07	196K	
<a href="#">26103-a00.zip</a>	05-Apr-2011 15:37	69K	
<a href="#">26104-a00.zip</a>	05-Apr-2011 16:45	421K	
<a href="#">26110-a00.zip</a>	27-Mar-2011 22:46	76K	
<a href="#">26111-a00.zip</a>	28-Mar-2011 00:23	34K	
<a href="#">26114-a00.zip</a>	01-Apr-2011 12:52	2.4M	
<a href="#">26115-a00.zip</a>	27-Mar-2011 23:04	153K	
<a href="#">26131-a10.zip</a>	01-Apr-2011 12:51	1.4M	
<a href="#">26132-a00.zip</a>	01-Apr-2011 12:51	685K	
<a href="#">26140-a00.zip</a>	27-Mar-2011 23:10	168K	
<a href="#">26141-a00.zip</a>	27-Mar-2011 23:18	167K	
<a href="#">26142-a00.zip</a>	27-Mar-2011 23:21	275K	
<a href="#">26150-a00.zip</a>	27-Mar-2011 23:26	529K	
<a href="#">26171-a00.zip</a>	27-Mar-2011 23:54	188K	
<a href="#">26173-a00.zip</a>	05-Apr-2011 16:17	1.5M	
<a href="#">26174-a00.zip</a>	05-Apr-2011 15:10	61M	
<a href="#">26177-a00.zip</a>	05-Apr-2011 16:40	8.8M	



# Prepare Software

- Download 26173-aoo.zip.
  - Unzip 26173-aoo.zip. The unzip will have two files:
    - 26173-aoo\_ANSI-C\_source\_code.zip
    - 26173-aoo.doc
  - Unzip 26173-aoo\_ANSI-C\_source\_code.zip. This upzip creates two folders:
    - C-code
    - testv
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# Folder - testv

*(Contains test vectors and batch files for testing)*

- .bat – batch file
- .inp – input test vector
- .cod – encoded bits
- .out – decoded vector

Name	Date modified	Type	Size
dtx.inp	1/31/2001 12:47 PM	INP File	125 KB
test_dec.bat	1/31/2001 12:51 PM	Windows Batch File	1 KB
test_enc.bat	1/31/2001 12:50 PM	Windows Batch File	1 KB
tst.inp	3/7/2001 4:10 PM	INP File	125 KB
tst_m0.cod	3/5/2002 4:19 PM	COD File	53 KB
tst_m0.out	3/5/2002 4:20 PM	OUT File	125 KB
tst_m1.cod	3/5/2002 4:19 PM	COD File	71 KB
tst_m1.out	3/5/2002 4:20 PM	OUT File	125 KB
tst_m2.cod	3/5/2002 4:19 PM	COD File	100 KB
tst_m2.out	3/5/2002 4:20 PM	OUT File	125 KB
tst_m3.cod	3/5/2002 4:19 PM	COD File	113 KB
tst_m3.out	3/5/2002 4:20 PM	OUT File	125 KB
tst_m4.cod	3/5/2002 4:19 PM	COD File	125 KB
tst_m4.out	3/5/2002 4:20 PM	OUT File	125 KB
tst_m5.cod	3/5/2002 4:19 PM	COD File	144 KB
tst_m5.out	3/5/2002 4:20 PM	OUT File	125 KB
tst_m6.cod	3/5/2002 4:19 PM	COD File	157 KB
tst_m6.out	3/5/2002 4:20 PM	OUT File	125 KB
tst_m7.cod	3/5/2002 4:19 PM	COD File	182 KB
tst_m7.out	3/5/2002 4:20 PM	OUT File	125 KB
tst_m8.cod	3/5/2002 4:19 PM	COD File	188 KB
tst_m8.out	3/5/2002 4:20 PM	OUT File	125 KB
tst_md.cod	3/5/2002 4:19 PM	COD File	49 KB
tst_md.out	3/5/2002 4:20 PM	OUT File	125 KB

# Folder - c-code



(Contains G.722.2 source files)

- .c – C source file
- .h – C header file
- .tab – data table file
- .gcc – makefile
- .txt – text file

Name	Date modified	Type	Size
acelp.h	8/25/2003 1:00 AM	H File	30 KB
agc2.c	8/25/2003 1:00 AM	C File	3 KB
autocorr.c	8/25/2003 1:00 AM	C File	3 KB
az_jsp.c	8/25/2003 1:00 AM	C File	12 KB
basic_op.h	8/25/2003 1:00 AM	H File	4 KB
basicop2.c	8/25/2003 1:00 AM	C File	108 KB
bits.c	9/29/2006 9:57 AM	C File	14 KB
bits.h	11/12/2004 12:30 ...	H File	3 KB
c2t64fx.c	8/25/2003 1:00 AM	C File	11 KB
c4t64fx.c	8/25/2003 1:00 AM	C File	36 KB
cnst.h	3/20/2007 1:39 PM	H File	4 KB
cod_main.c	8/25/2003 1:00 AM	C File	63 KB
cod_main.h	8/25/2003 1:00 AM	H File	4 KB
coder.c	8/25/2003 12:00 A...	C File	11 KB
convolve.c	8/25/2003 1:00 AM	C File	2 KB
cor_h_x.c	8/25/2003 1:00 AM	C File	3 KB
count.c	8/25/2003 1:00 AM	C File	7 KB
count.h	8/25/2003 1:00 AM	H File	5 KB
d_gain2.c	8/25/2003 1:00 AM	C File	12 KB
d2t64fx.c	8/25/2003 1:00 AM	C File	3 KB
d4t64fx.c	8/25/2003 1:00 AM	C File	6 KB
dec_main.c	9/30/2007 11:43 PM	C File	42 KB
dec_main.h	8/25/2003 1:00 AM	H File	3 KB
decim54.c	8/25/2003 1:00 AM	C File	8 KB

# Folder - Release

*(Contains G.722.2 source files)*



Name	Date modified	Type	Size
 wamr_dec.exe	11/7/2012 8:57 PM	Application	104 KB
 wamr_enc.exe	11/7/2012 8:57 PM	Application	138 KB

- wamr\_dec.exe – decoder executable program.
- wamr\_enc.exe – encoder executable program.



# Folder - wamr\_dec



*(Contains G.722.2 decoder VC project)*

Name	Date modified	Type	Size
 Release	12/4/2012 8:21 PM	File folder	
 wamr_dec.vcproj	10/31/2012 8:20 PM	VCPROJ File	9 KB

- wamr\_dec.vcproj – decoder VC project file.

# Folder - wamr\_enc

*(Contains G.722.2 decoder VC project)*

Name	Date modified	Type	Size
 Release	12/4/2012 8:21 PM	File folder	
 wamr_enc.vcproj	10/31/2012 8:20 PM	VCPROJ File	9 KB

- wamr\_enc.vcproj – encoder VC project file.