



# COVERING NOTE

GENERAL SECRETARIAT INTERNATIONAL TELECOMMUNICATION UNION

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ITU – TELECOMMUNICATION  
STANDARDIZATION SECTOR

## Subject: Erratum 1 (06/2004) to

ITU-T Recommendation G.722.2 Annex C (03/2004), *Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB) – Annex C: Fixed-point C-code*

Modify Tables C.5, C.6 and C.7 as follows, in order to replace all occurrences of LSF by ISF, all occurrences of LSP by ISP and "Dicoi\_" with "dicoi\_" (non-modified rows are not shown).

Table C.5/G.722.2 – Fixed tables

File	Table name	Length	Description
...			
Isp_isf.tab	slope	128	Table to compute $\cos(x)$ in $\text{LIsf\_Iisp}()$
Isp_isf.tab	Table	129	Table to compute $\text{acos}(x)$ in $\text{LIsf\_Iispf}()$
...			
Qisf_ns.tab	<del>D</del> dico3_isf_noise	3*64	3rd <del>L</del> ISF quantizer for comfort noise
Qisf_ns.tab	<del>D</del> dico4_isf_noise	4*32	4th <del>L</del> ISF quantizer for comfort noise
Qisf_ns.tab	<del>D</del> dico5_isf_noise	4*32	5th <del>L</del> ISF quantizer for comfort noise
Qisf_ns.tab	mean_isf_noise	16	ISF mean for comfort noise
Qpif_2s.tab	dico1_isf	9*256	1st ISF quantizer of the 1st stage
Qpif_2s.tab	<del>D</del> dico2_isf	7*256	2nd ISF quantizer of the 1st stage
Qpif_2s.tab	<del>D</del> dico21_isf	3*64	1st ISF quantizer of the 2nd stage (not the 6.60 kbit/s mode)
Qpif_2s.tab	<del>D</del> dico21_isf_36b	5*128	1st ISF quantizer of the 2nd stage (the 6.60 kbit/s mode)
Qpif_2s.tab	<del>D</del> dico22_isf	3*128	2nd ISF quantizer of the 2nd stage (not the 6.60 kbit/s mode)
Qpif_2s.tab	<del>D</del> dico22_isf_36b	4*128	2nd ISF quantizer of the 2nd stage (the 6.60 kbit/s mode)
Qpif_2s.tab	<del>D</del> dico23_isf	3*128	3rd ISF quantizer of the 2nd stage (not the 6.60 kbit/s mode)
Qpif_2s.tab	<del>D</del> dico23_isf_36b	7*64	3rd ISF quantizer of the 2nd stage (the 6.60 kbit/s mode)
Qpif_2s.tab	<del>D</del> dico24_isf	3*32	4th ISF quantizer of the 2nd stage (not the 6.60 kbit/s mode)
Qpif_2s.tab	<del>D</del> dico25_isf	4*32	5th ISF quantizer of the 2nd stage (not the 6.60 kbit/s mode)
Qpif_2s.tab	Mean_isf	16	ISF mean

**Table C.6/G.722.2 – Speech encoder static variables**

Struct name	Variable	Type[Length]	Description
...	...		
dtx_encState	Isf_hist Log_en_hist Hist_ptr Log_en_index Cng_seed D sumD dtxHangoverCount decAnaElapsedCount	Word16[128] Word16[8] Word16 Word16 Word16 Word16[28] Word16[8] Word16 Word16	ISF history (8 frames) Logarithmic frame energy history (8 frames) Pointer to the cyclic history vectors Index for logarithmic energy Comfort noise excitation seed ISF history distance matrix Sum of ISF history distances Is decreased in DTX hangover period Counter for elapsed speech frames in DTX
...			

**Table C.7/G.722.2 – Speech decoder static variables**

Struct name	Variable	Type[Length]	Description
...			
dtx_decState	Since_last_sid true_sid_period_inv log_en old_log_en isf Isf_old Cng_seed Isf_hist Log_en_hist Hist_ptr dtxHangoverCount DecAnaElapsedCount sid_frame valid_data log_en_adjust dtxHangoverAdded dtxGlobalState data_updated	Word16 Word16 Word16 Word16 Word16[16] Word16[16] Word16 Word16[128] Word16[8] Word16 Word16 Word16 Word16 Word16 Word16 Word16 Word16 Word16	Number of frames since last SID frame Inverse of true SID update rate Logarithmic frame energy Previous value of log_en ISF vector Previous ISF vector Comfort noise excitation seed ISF vector history (8 frames) Logarithmic frame energy history Index to beginning of ISF history Counts down in hangover period Counts elapsed speech frames after DTX Flags SID frames Flags SID frames containing valid data Mode-dependent frame energy adjustment Flags hangover period at end of speech DTX state flags Flags CNI updates