



Arbitrary Tone Detector

PRODUCT DESCRIPTION

Adaptive Digital's Arbitrary Tone Detector software detects user-defined tones. This software finds use when the user needs signaling tones other than the standard DTMF and MF tones.

FEATURES

- Functions are C-callable
- Handles multiple signaling tones
- Frequencies are host specified
- Low overhead interface
- Low per-channel memory requirements

AVAILABILITY

ADT Arbitrary Tone Detect is available on the TMS320™ DSP Family
 C54x, C64x & C64x+™ DSP Generations
PC/DLL – Contact Sales @ 610-825-0182 x120

SPECIFICATIONS

C54x

All Memory usage is given in units of 16-bit word.

Function	MIPS* (Peak)	Program Memory	Data Memory	Per-Channel Data Memory**
TDLOWMEM_ADT_toneDetect()	0.62	2156	14	(4 + NUM_DISTINCT_FREQS) NUM_DISTINCT_FREQS +57

*MIPS indicated is for a sample tone set; actual MIPS depends on the user "tone table".

**NUM_DISTINCT_FREQS is the compile time constant representing the number of distinct frequencies that constitute the tones in the "tone table"

Last update: 06/16/2003

C64x

All Memory usage is given in units of byte.

Function	MIPS* (Peak)	Program Memory	Data Memory	Per-Channel Data Memory	
				Arbitrary Tone Instance	Tone Detector Channel Instance
TDLOWMEM_ADT_toneDetect()	0.35	7136	194	(4 + N)* N +14	(N *2 + 38)*2

Last update: 12/10/2007

C64x+

All Memory usage is given in units of byte.

Function	MIPS* (Peak)	Program Memory	Data Memory	Per-Channel Data Memory	
				Arbitrary Tone Instance	Tone Detector Channel Instance
TDLOWMEM_ADT_toneDetect()	0.27	6592	194	$(4 + N) * N + 14$	$(N * 2 + 38) * 2$

*MIPS indicated is for a sample tone set (4 frequencies and 4 tones); actual MIPS depends on the user "tone table".

**N is NUM_DISTINCT_FREQS, the user defined constant representing the number of distinct frequencies that constitute the tones in the "tone table"

Last update: 12/10/2008

FUNCTIONS

Arbit_ADT_Config (. . .)	Configures the Arbitrary Tone Detector
Arbit_ADT_Init (. . .)	Initializes the Arbitrary Tone Detector
TDLOWMEM_ADT_toneDetect(..)	Executes the Arbitrary Tone Detector

Adaptive Digital is a member of the Texas Instruments Developer Network, and ARM Connected Community.

CONTACT INFORMATION

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