APPENDIX B: Summary of Speech Synthesis Products

Product	Manufacturer or Developer	Platforms	Languages	Voices	Controls / Support	Requirements	Method
Infovox 230 v1.0	Telia Promotor Infovox AB TTS Sales Division PO Box 2069, S-17102 Solna Sweden Kuulolaitekeskus Oy PL8, 02101 Espoo Tel. +358 9 429 3276 http://www.infovox.se	RS232 Desktop PC ISA board OEM board Windows 95/NT Apple Macintosh	Finnish English Swedish Danish Norwegian Italian Spanish French Dutch (v1.1)	Male x 2 Female x 2 Child	Volume Speed up to 400 Aspiration Intonation Reading modes MS-SAPI DTMF-tones	Windows: 486 DX 33 MHz 8 Mb memory 10 Mb disk	Formant
Infovox 330 (Under development)	see above	Windows 95/NT	Br English German Dutch	see above	see above	Windows 95/NT: Pentium 8 Mb memory (16 Mb for NT)	Diphone Concat.
DECtalk	Digital Equipment Corporation 20 Forbes Road Northboro, MA 01532, USA http://www.digital.com	PC ISA/EISA RS232/423 Desktop Windows 95/NT	English German Spanish	Male x 4 Female x 4 Child	Speed 75-650 MS-SAPI DTMF-tones	Windows: 486 DX 50 MHz 8 Mb memory	Formant
Bell Labs TTS TrueTalk AT&T Watson FlexTalk Pentium 75	AT&T Bell Laboratories / Lucent Tech http://www.bell-labs.com/projects/tts Entropic Research Laboratory http://www.entropic.com/products/tts AT&T Advanced Speech Product Group http:/www.att.com/aspg/odemo.html	UNIX Windows 95	English French Spanish Italian German Russian Romanian Chinese Japanese	Male Female	Speed Intonation contours Lexical stress Sentence accent Segmental durations Pitch and pitch range Gender Age Vocal track scaling glottal source param.	32 Mb memory 15 Mb disk Pentium 75 2 Mb memory 10 Mb disk	Concat.
Laureate	British Telecom (BT) http://www.labs.bt.com/innovate/ speech/laureate		English	Male Female			Concat.
Orator	Bellcore (Bell Communications Research) http://www.bellcore.com/ORATOR	UNIX LINUX	English	Male		16 Mb memory	Concat.

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SoftVoice	SoftVoice, Inc. people@text2speech.com http://www.text2speech.com	Windows	English Spanish	Male Female Child Robot Alien Colossus Martian ... (> 20)	Speed 20-800 Pitch 10-2000 Hz Breathiness ... (> 30) Mouth shape data Singing		Formant
ProVerbe Speech Engine (CNET PSOLA)	Elan Infromatique Voice Processing 4, rue Jean Rodier 31400 Toulouse France http//www.elan.fr	RS232 or RS458	Am. English Br. English French German Spanish	Male Female	Speed Pitch DTMF-tones	-	Concat. PSOLA
Lernout & Hauspie	L&H TTS Products 20 Mail Road, 4th floor Burlington, MA 01803, USA. sales@lhs.com http://www.lhs.com	Windows 95/NT	English Germany Dutch French Spanish Italian Korean	Male Female	Volume Speed Pitch Prosody tool SAPI	2..3 Mb memory	Concat.
Eurovocs	Technologie & Revalidatie (T&R) Postbus 128 B-9000 Gent, Belgium. http://www.elis.rug.ac.be/t%26i/ eurovocs.htm	RS232 Desktop	Am. English Dutch German French Spanish Italian	Female	Volume Speech rate	-	Concat.
MacinTalk 2	Apple Computers Inc. http://www.apple.com/ptk/voices.html	Macintosh	English	Male Female Child (10 total)	Speed Pitch Emphasis	Any Mac 150 kb memory	Concat.
MacinTalk 3	see above	see above	English	Male Female Child (19 total)	Speed Pitch Emphasis Singing Special effect voices	68030 33MHz 300 kb memory	Formant
MacinTalkPro	see above	see above	English Mexican Spanish	Male Female Child (5 total)	Speed Pitch Emphasis	68040 1.5 Mb memory	Concat.

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CyberTalk	Panasonic Technologies, Inc. Speech Technology Laboratory Santa Barbara, California cybertalk@stl.research.panasonic.com http://www.research.panasonic.com/pti/ stl/stl_web_demo/demo.html	Window 3.1/95/NT	English	Male Female	SAPI-support	800 kb memory + 360 kb to 3.5 Mb for speech data	Hybrid Formant/ Concat.
AcuVoice	AcuVoice, Inc. 84 W. Santa Clara St. Suite 720, San Jose CA 95113-1810, USA http://www.acuvoice.com	Windows 95/NT UNIX	English	Male	SAPI-support	Pentium 75 MHz 160 Mb Disk 8 Mb mem (UNIX: 32 Mb)	Concat.
MBROLA (Free for non-commercial use)	MBROLA Project Developing Team Faculte Polytech. de Mons, TCTS Lab. 31, bvd dolez, B-7000 Mons, Belgium. mbrola@tcts.fpms.ac.be http://tcts.fpms.ac.be/synthesis/ mbrola.html	PC / UNIX	Am. English Br. English French Dutch German Portuguese Romanian Spanish	one voice - one database			Diphone based concat.
ETI Eloquence	ETI Eloquent, Inc. 2389 N. Triphammer Rd. Ithaca, NY 14850, USA. http://www.eloq.com	Windows 95/NT	Am. English Br. English Mex. Spanish Cast. Spanish French German Italian	Male Female	Gender, head size, pitch baseline and fluctuation, roughness, breathiness, speed, volume SAPI-support	468 66 MHz 8 Mb memory	Formant (Klatt)
MS Whistler	Microsoft Corporation http://research.microsoft.com/ research/srg		English	-			
Festival (Free for non-commercial use)	University of Edinburgh http://www.cstr.ed.ac.uk/projects/festival/	UNIX	English	Male			
NeuroTalker	International Neural Machines, Inc. (INM) 175 Columbia Street West, Suite 203 Waterloo, Ontario, Canada. http://www.ineural.com/products.html	Windows 3.x/95/NT	English		Scanner support	486 DX 8 Mb memory	

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ModelTalker	University of Delaware http://www.asel.udel.edu/speech/Dsynterf.html	UNIX	English	Male (Female) (Child) Neutral happy sad frustration assertive suprise contradiction			Diphone concat.
Listen2 English Listen2 International	JTS Microconsulting Ltd. RR#4, 10931, Lytton Road Ladysmith, B.C., Canada	Windows	English German French Italian Spanish	Male Female (6 total)	Volume Speed Pitch scale	486 8 Mb memory	
SPRUCE	University of Bristol http://www.cs.bris.ac.uk/~eric/research/spruce97.html	PC / UNIX	English	-			High-level
Hadifix	University of Bonn http://asl1.ikp.uni-bonn.de/~tpo/Hadifix.en.html		German				Concat
SVOX	Swiss Federal Institute of Technology Zurich, Switzerland. http://www.tik.ee.ethz.ch/cgi-bin/w3svox		German				Concat
Synte 3	TTKK / TKK		Finnish	Male			formant
Mikropuhe	Timehouse Corp. Thurmanin puistotie 12 02700 Kauniainen http://www.kolumbus.fi/topteam	Windows 3.x/95/NT Macintosh	Finnish	Male Robot Donald	Volume Speed Pitch Pitch randomness Peacefullness Word pauses	486DX25 4 MB memory	microph. concat
Sanosse	Sanosse Corp. University of Turku http://www.psy.utu.fi/otk/tuotteet		Finnish	Male			concat.