

National Semiconductor Digital Voice Selection Software (DTSW-500)

This document contains a list of all the vocabulary numbers, letters, words and sounds etc that were included with the National Semiconductor Digital Voice Selection Software program suite.

There are over 600 to choose from when creating your own custom ROMs. As far as know, there are no other vocabulary libraries available.

I have split the complete library of words into 5 ROMs.

Each ROM is a maximum of 16Kbytes in size. Attempting to exceed 16Kbytes results in errors being reported.

The 5 ROMs files are all in Intel-HEX format and named:

- DVSSROM1.HEX
- DVSSROM2.HEX
- DVSSROM3.HEX
- DVSSROM4.HEX
- DVSSROM5.HEX

There is a 6th ROM called DVSSROMS.HEX which is all 5 ROMs merged into 1 file which can be programmed into a larger flash chip if your hardware supports one big chip for the vocabulary.

What follows are the lists of vocabulary words in each ROM along with their respective "addresses". If you want Digital Voice Selection to say the word "emergency" from ROM #2, then you need to tell the Digital Voice Selection chip to speak word 53.

If you have combined all the ROMs and programmed 1 big ROM, then you will need to select the required ROM using whatever technique your hardware uses.

Created by @markd833 (forum.arduino.cc) on 13-DEC-2023

DVSSROM #1 INDEX

1	-ed.fs1	49	a-.mqr	97	away
2	-ed.fs2	50	a-.rqt	98	b
3	-ed.fs3	51	able	99	back
4	-ed.fs4	52	abort	100	barometric.r
5	-er.ms1	53	aborted	101	basement
6	-er.ms2	54	ac	102	bath
7	-er.ms3	55	accumulate	103	battery
8	-er.ms4	56	acknowledge	104	been.r
9	-er.ms5	57	activate	105	before.r
10	-ing.fs1	58	activating.s	106	between.r
11	-ing.fs2	59	active	107	black
12	-ing.ms3	60	activity	108	blocking
13	-s.ms1	61	add.r	109	blue
14	-s.ms2	62	address	110	brake
15	-th.ms	63	adjust.s	111	budget.s
16	-uth.ms	64	after	112	budgeting
17	0	65	after.p	113	building
18	1	66	after.r	114	buoy
19	10	67	again	115	busy
20	100	68	air	116	button
21	1000	69	aisle	117	buy
22	11	70	alarm	118	by.r
23	12	71	alarm.r	119	c
24	13	72	alert	120	call
25	14	73	all.r	121	cancel
26	15	74	alternate.sa	122	capacitance
27	16	75	am(time)	123	car
28	17	76	amp	124	case
29	18	77	ampere	125	caution
30	19	78	an	126	cease
31	2	79	and	127	celsius
32	20	80	announcement	128	cent
33	3	81	answer.s	129	centi-.fp
34	30	82	april.r	130	centigrade
35	4	83	arrival	131	centimeter
36	40	84	ask	132	change
37	5	85	ask.r	133	channel.r
38	50	86	assistance	134	check.r
39	6	87	astern	135	circuit
40	60	88	at	136	clear
41	7	89	at.ft	137	close
42	70	90	at.r	138	close.r
43	8	91	attention	139	closed
44	80	92	august.r	140	closed.r
45	9	93	authorize	141	code
46	90	94	auto	142	cold
47	a	95	available.r	143	comma
48	a-.fgt	96	average		

DVSS ROM#2 INDEX

1	command.r	49	electric	97	gallon
2	common	50	electricity	98	gas
3	communication	51	eleven	99	get
4	complete	52	else	100	go
5	condition	53	emergency	101	going
6	configuration	54	enable	102	good.m
7	connect.r	55	enabled	103	gram
8	continue.s	56	end.r	104	gray
9	control	57	enter	105	great
10	converter	58	entry	106	greater
11	cool	59	equal	107	green
12	copy	60	error	108	group
13	correct	61	evacuate	109	h
14	cost.r	62	examine	110	half
15	count.r	63	exit	111	have
16	cross	64	exit.r	112	hello.p
17	customer	65	extreme	113	help
18	cut.mt	66	f	114	here
19	cutting	67	fail	115	hertz
20	d	68	failed	116	high
21	danger.fue	69	failure	117	higher
22	data	70	far	118	hire
23	date	71	farad	119	hit
24	day	72	fast	120	hold
25	dc	73	faster	121	home
26	december.r	74	february.r	122	hour
27	decrease.r	75	feet	123	house
28	default	76	fifteen	124	hundred
29	degree	77	fifth	125	hurt
30	delay.r	78	fifty	126	i
31	demonstration	79	fight	127	if.r
32	deposit.r	80	fire	128	in
33	depth	81	fire.fe	129	in.r
34	dial	82	first	130	in-.mpt
35	dial.r	83	five	131	in-.rp
36	dialing.s	84	floor	132	inactive
37	did.r	85	flow		
38	disable	86	forty		
39	disabled	87	forward		
40	divide	88	four		
41	dollar	89	fourteen		
42	door	90	friday		
43	down	91	from		
44	e	92	frontal.m		
45	east	93	fuel		
46	eight	94	fuse		
47	eighteen	95	fused		
48	eighty	96	g		

DVSS ROM#3 INDEX

1	inches	49	micro-.rp	97	optical.m
2	incorporated	50	mile	98	or
3	incorrect	51	milli-.mp	99	other.s
4	increase.r	52	millimeter	100	out
5	insert.r	53	million	101	over
6	interface	54	minus	102	over-range
7	intruder	55	minute	103	p
8	invalid.fa	56	miss	104	pair
9	is.r	57	missing	105	pan
10	it	58	model	106	parenthesis
11	j	59	modem	107	pass
12	january.r	60	module	108	pass.r
13	july.r	61	monday	109	passed
14	june.r	62	monitor	110	past
15	just.s	63	more	111	per.r
16	k	64	move.m	112	per-.sp
17	key	65	move.r	113	percent
18	keypad	66	my.m	114	phone.r
19	kilo-.fp	67	n	115	phone-number
20	l	68	nano-.rp	116	pico-.rp
21	leave.s	69	near	117	place
22	left	70	need	118	place.s
23	less	71	next	119	play
24	lesser	72	next.m	120	please
25	level	73	night	121	please.p
26	lie	74	nine	122	plus
27	light	75	nineteen	123	pm
28	lime	76	ninety	124	point
29	limit	77	no.m	125	point.r
30	line	78	normal	126	pound
31	link	79	north	127	power
32	listen.r	80	not	128	present
33	load	81	notice		
34	lock	82	november.r		
35	locked	83	number		
36	loop	84	o		
37	looped	85	o'clock		
38	low	86	october.r		
39	lower	87	of		
40	m	88	off		
41	march.r	89	ohm		
42	mark	90	okay		
43	may.r	91	on		
44	meg-.rp	92	one		
45	mega-.rp	93	onward		
46	message	94	open		
47	message.r	95	operator		
48	meter	96	optical		

DVSS ROM#4 INDEX

1	press.r	49	security	97	steam
2	pressure	50	see	98	stern
3	program	51	select	99	stop
4	pull.r	52	send.r	100	store
5	pulse.m	53	sensor	101	storm
6	pulses	54	sent	102	stream
7	push.r	55	september.r	103	street
8	put.s	56	sequence.m	104	sub
9	q	57	service	105	subscriber
10	quarter	58	set	106	sunday
11	r	59	seven	107	supervisory
12	rain	60	seventeen	108	switch
13	range	61	seventy	109	switched
14	rate	62	short	110	system.r
15	re-.mph	63	should.m	111	t
16	re-.mpl	64	side	112	tank
17	re-.sph	65	sight	113	tape
18	re-.spl	66	sil10	114	taping
19	reach	67	sil160	115	target.s
20	ready	68	sil20	116	tea
21	received.r	69	sil320	117	tear
22	receiver	70	sil40	118	teen
23	record.r	71	sil5	119	temperature
24	red	72	sil640	120	temporary.s
25	remove.s	73	sil80	121	ten
26	repair.r	74	sink	122	terminate
27	repeat	75	site	123	terminated
28	replace.p	76	six	124	test
29	replace.r	77	sixteen	125	than
30	reset	78	sixty	126	thank
31	resistance	79	slow	127	thank.m
32	response	80	slower	128	thank-you
33	restore	81	smile	129	that.r
34	restored	82	smoke	130	the.r
35	return.s	83	sound	131	the-.mr
36	reverse	84	south	132	the-.rt
37	right	85	space	133	the-.st
38	ring	86	span	134	thee.r
39	ring.r	87	spare	135	thee-.mr
40	room	88	speed	136	thee-.rt
41	route	89	spell	137	then.r
42	run	90	squad	138	there
43	running	91	squad.m	139	therm
44	s	92	stair		
45	safe	93	star		
46	saturday	94	start		
47	second	95	station		
48	secure	96	status		

DVSS ROM#5 INDEX

1	thermal	49	type	97	working
2	thermal.m	50	u	98	x
3	third	51	un-.rp1	99	y
4	thirteen	52	un-.rp2	100	yellow
5	thirty	53	unable	101	yes
6	this.m	54	unattended	102	yes.m
7	thousand	55	unit	103	you
8	three	56	unknown	104	your.r
9	thursday	57	unlock	105	z
10	tide	58	unlocked	106	zero
11	time.r	59	untrue.r	107	zone
12	tip	60	up		
13	today.r	61	use		
14	today's.r	62	use.r		
15	tone	63	used		
16	tone1000	64	utility		
17	tone1000.mt	65	v		
18	tone10000	66	voice		
19	tone10000.mt	67	volt		
20	tone12500	68	voltage		
21	tone12500.mt	69	vote		
22	tone200	70	w		
23	tone200.mt	71	wait		
24	tone2000	72	wait.r		
25	tone2000.mt	73	waiting		
26	tone400	74	waiting.s		
27	tone400.mt	75	wake		
28	tone5000	76	wake-up		
29	tone5000.mt	77	warm		
30	tone80	78	warning		
31	tone80.mt	79	was.s		
32	tone800	80	water		
33	tone800.mt	81	watt		
34	total	82	wave		
35	touch.r	83	wear		
36	tracking.s	84	wednesday		
37	traffic	85	week.s		
38	transfer.m	86	welcome		
39	trip	87	west		
40	true.r	88	what.r		
41	trunk	89	will.r		
42	try	90	wind.fnq		
43	tuesday	91	wind.rvg		
44	turn	92	wish.r		
45	turn.s	93	with.r		
46	twelve	94	within.r		
47	twenty	95	word		
48	two	96	work		

DVSS ROM Build Reports

There are the actual build reports for each of the 5 ROMs as reported by the DVSS software.

DVSSROM #1

Message pointers: 144 (288 bytes)
Instructions: 1082 (3246 bytes)
Speech data used: 12694 bytes
Speech data reused: 26439 bytes

Total bytes used: 16228 (100%)
Total bytes left: 156 (0%)

DVSSROM #2

Message pointers: 133 (266 bytes)
Instructions: 1076 (3228 bytes)
Speech data used: 12783 bytes
Speech data reused: 25439 bytes

Total bytes used: 16277 (100%)
Total bytes left: 107 (0%)

DVSSROM #3

Message pointers: 129 (258 bytes)
Instructions: 972 (2916 bytes)
Speech data used: 13156 bytes
Speech data reused: 19520 bytes

Total bytes used: 16330 (100%)
Total bytes left: 54 (0%)

DVSSROM #4

Message pointers: 140 (280 bytes)
Instructions: 1281 (3843 bytes)
Speech data used: 12154 bytes
Speech data reused: 36352 bytes

Total bytes used: 16277 (100%)
Total bytes left: 107 (0%)

DVSSROM #5

Message pointers: 108 (216 bytes)
Instructions: 787 (2361 bytes)
Speech data used: 9988 bytes
Speech data reused: 15893 bytes

Total bytes used: 12565 (77%)
Total bytes left: 3819 (23%)