

mchf_obj_code_size_after_gcc_optimization

Directory	Object-Name	-O	-O1	-O2	-O3	-Og
./usb/otg/src	usb_dcd.o	4448	4448	4404	5392	4460
./usb/otg/src	usb_core.o	12564	12564	12216	14684	12768
./usb/otg/src	usb_dcd_int.o	2860	2860	2844	3024	5464
./usb/otg/src	usb_hcd.o	2792	2792	2792	2944	2804
./usb/otg/src	usb_hcd_int.o	8636	8636	8636	8636	8636
./usb/usbd/class/audio/src	usbd_audio_core.o	6512	6512	6480	6404	6984
./usb/usbd/class/audio/src	usbd_audio_out_if.o	3624	3624	3648	3676	4096
./usb/usbd/class/cdc/src	usbd_cdc_core.o	4140	4140	4104	4100	4356
./usb/usbd/core/src	usbd_ioreq.o	2304	2304	2304	2304	2304
./usb/usbd/core/src	usbd_core.o	4080	4080	4092	4092	4272
./usb/usbd/core/src	usbd_req.o	4092	4092	3824	3920	5636
./usb/usbh/class/HID/src	usbh_hid_keybd.o	2348	2348	2340	2452	2348
./usb/usbh/class/HID/src	usbh_hid_core.o	3676	3676	3584	3576	4612
./usb/usbh/class/HID/src	usbh_hid_mouse.o	1384	1384	1376	1376	1384
./usb/usbh/core/src	usbh_core.o	5232	5232	5276	5424	5444
./usb/usbh/core/src	usbh_hcs.o	1860	1860	1832	1904	2064
./usb/usbh/core/src	usbh_ioreq.o	3224	3224	3184	3164	3500
./usb/usbh/core/src	usbh_stdreq.o	3468	3468	3504	3704	4200
./syscalls	syscalls.o	1948	1948	1948	1948	1948
./stdio	printf.o	7052	7052	7052	7040	7056
./misc/v_eprom	eeprom.o	3640	3640	3552	4628	4168
./misc	config_storage.o	3788	3788	3832	3988	4072
./misc	serial_eeprom.o	6340	6340	6288	7864	6536
./misc	profiling.o	944	944	944	944	944
./misc	TestCPlusPlusBuild.o	780	780	780	780	780
./hardware	mchf_board.o	6780	6780	6772	6828	9744
./hardware	mchf_hw_i2c2.o	1396	1396	1396	1396	1396
./hardware	mchf_hw_i2c.o	5116	5116	5300	6684	5152
./drivers/audio/codec	codec.o	5208	5208	5728	6552	5224
./drivers/audio/codec	i2s.o	2916	2916	2932	2932	2916
./drivers/audio/cw	cw_gen.o	5264	5264	5304	5292	5776
./drivers/audio/filters	fir_rx_decimate_4.o	1480	1480	1480	1480	1480
./drivers/audio/filters	fir_rx_decimate_4_min_lpf.o	1024	1024	1024	1024	1024
./drivers/audio/filters	fir_rx_interpolate_16_10kHz.o	1076	1076	1076	1076	1076
./drivers/audio/filters	fir_rx_interpolate_16.o	1636	1636	1636	1636	1636
./drivers/audio/filters	iir_15k_hpf_fm_squelch.o	1096	1096	1096	1096	1096
./drivers/audio/filters	iir_10k.o	1092	1092	1092	1092	1092
./drivers/audio/filters	iir_10k_neu.o	1100	1100	1100	1100	1100
./drivers/audio/filters	iir_1_6k.o	1332	1332	1332	1332	1332
./drivers/audio/filters	iir_1_4k.o	1552	1552	1552	1552	1552
./drivers/audio/filters	iir_1_8k.o	2216	2216	2216	2216	2216
./drivers/audio/filters	iir_2_5k.o	1332	1332	1332	1332	1332
./drivers/audio/filters	iir_2_3k.o	1996	1996	1996	1996	1996
./drivers/audio/filters	iir_2_1k.o	1332	1332	1332	1332	1332
./drivers/audio/filters	iir_2_7k.o	1332	1332	1332	1332	1332
./drivers/audio/filters	iir_2k7_tx_bpf_fm.o	1124	1124	1124	1124	1124
./drivers/audio/filters	iir_2k7_tx_bpf.o	1788	1788	1788	1788	1788
./drivers/audio/filters	iir_2_9k.o	1332	1332	1332	1332	1332
./drivers/audio/filters	iir_300hz.o	3108	3108	3108	3108	3108
./drivers/audio/filters	iir_3_6k.o	1332	1332	1332	1332	1332
./drivers/audio/filters	iir_3_4k.o	1332	1332	1332	1332	1332
./drivers/audio/filters	iir_3_2k.o	1332	1332	1332	1332	1332

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./drivers/audio/filters	iir_3_8k.o	1332	1332	1332	1332	1332
./drivers/audio/filters	iir_4_2k.o	1116	1116	1116	1116	1116
./drivers/audio/filters	iir_3k.o	1112	1112	1112	1112	1112
./drivers/audio/filters	iir_4_4k.o	1116	1116	1116	1116	1116
./drivers/audio/filters	iir_4_6k.o	1116	1116	1116	1116	1116
./drivers/audio/filters	iir_4k.o	1112	1112	1112	1112	1112
./drivers/audio/filters	iir_500hz.o	1996	1996	1996	1996	1996
./drivers/audio/filters	iir_4_8k.o	1116	1116	1116	1116	1116
./drivers/audio/filters	iir_5_5k.o	1116	1116	1116	1116	1116
./drivers/audio/filters	iir_5k.o	1112	1112	1112	1112	1112
./drivers/audio/filters	iir_6_5k.o	1116	1116	1116	1116	1116
./drivers/audio/filters	iir_7_5k.o	1100	1100	1100	1100	1100
./drivers/audio/filters	iir_6k.o	1112	1112	1112	1112	1112
./drivers/audio/filters	iir_7k.o	1096	1096	1096	1096	1096
./drivers/audio/filters	iir_8_5k.o	1100	1100	1100	1100	1100
./drivers/audio/filters	iir_8k5_hpf_fm_squelch.o	1096	1096	1096	1096	1096
./drivers/audio/filters	iir_8k.o	1096	1096	1096	1096	1096
./drivers/audio/filters	iir_9_5k.o	1100	1100	1100	1100	1100
./drivers/audio/filters	iir_antialias.o	2012	2012	2012	2012	2012
./drivers/audio/filters	iir_9k.o	1096	1096	1096	1096	1096
./drivers/audio/filters	iq_rx_filter.o	6272	6272	6272	6272	6272
./drivers/audio/filters	iq_tx_filter.o	3480	3480	3480	3480	3480
./drivers/audio/filters	iq_rx_filter_am.o	3600	3600	3600	3600	3600
./drivers/audio/softdds	dds_table.o	2924	2924	2924	2924	2924
./drivers/audio/softdds	softdds.o	2432	2432	2564	2652	2360
./drivers/audio	audio_filter.o	22412	22412	22484	22976	22580
./drivers/audio	audio_management.o	7284	7284	7136	7292	7284
./drivers/audio	freedv_test_data.o	776	776	776	776	776
./drivers/audio	freedv_mchf.o	16344	16344	16696	17304	16384
./drivers/audio	audio_driver.o	49392	49392	50304	50856	51804
./drivers/cat/usb	usbd_bsp.o	2572	2572	2552	2552	2572
./drivers/cat/usb	usbd_cdc_vcp.o	2016	2016	1988	1988	1996
./drivers/cat/usb	usbd_usr.o	2748	2748	2748	2748	2748
./drivers/cat/usb	usbd_desc.o	3160	3160	3160	3160	3160
./drivers/cat	cat_driver.o	5640	5640	5900	6376	5640
./drivers/diag	Trace.o	764	764	764	764	764
./drivers/diag	trace_impl.o	768	768	768	768	768
./drivers/freedv	codebookdt.o	1568	1568	1568	1568	1568
./drivers/freedv	codebook.o	1932	1932	1932	1932	1932
./drivers/freedv	codebookd.o	2688	2688	2688	2688	2688
./drivers/freedv	codebookge.o	3032	3032	3032	3032	3032
./drivers/freedv	codebooklspmelvq.o	5696	5696	5696	5696	5696
./drivers/freedv	codebookjnd.o	82288	82288	82288	82288	82288
./drivers/freedv	codebookjvm.o	42044	42044	42044	42044	42044
./drivers/freedv	codebookmel.o	1412	1412	1412	1412	1412
./drivers/freedv	codebookres.o	1304	1304	1304	1304	1304
./drivers/freedv	codebookvqanssi.o	21616	21616	21616	21616	21616
./drivers/freedv	codec2_fft.o	2208	2208	2208	2208	2208
./drivers/freedv	codebookvq.o	99736	99736	99736	99736	99736
./drivers/freedv	dump.o	764	764	764	764	764
./drivers/freedv	fifo.o	3004	3004	2780	3040	3008
./drivers/freedv	fm.o	5424	5424	5384	5368	5660
./drivers/freedv	codec2.o	22184	22184	22156	22744	22608

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./drivers/freedv	cohpsk.o	21540	21540	21420	37252	23064
./drivers/freedv	fmfsk.o	4304	4304	4300	4460	4400
./drivers/freedv	freedv_data_channel.o	4232	4232	4116	4312	4388
./drivers/freedv	freedv_vhf_framing.o	7488	7488	7616	8120	8044
./drivers/freedv	fdmdv.o	29992	29992	29308	31488	32120
./drivers/freedv	golay23.o	26696	26696	26696	26856	26820
./drivers/freedv	freedv_api.o	21928	21928	21952	22256	21768
./drivers/freedv	interp.o	4512	4512	4460	5468	4432
./drivers/freedv	linreg.o	1152	1152	1128	1128	1384
./drivers/freedv	kiss_fftr.o	3044	3044	2992	3128	3064
./drivers/freedv	kiss_fft.o	4908	4908	5088	9608	5616
./drivers/freedv	modem_stats.o	2756	2756	2724	2756	2696
./drivers/freedv	lsp.o	2224	2224	2256	2272	2220
./drivers/freedv	lpc.o	4008	4008	4016	4380	3988
./drivers/freedv	fsk.o	18428	18428	18060	18140	22856
./drivers/freedv	octave.o	3316	3316	3320	4120	3392
./drivers/freedv	nlp.o	4320	4320	4244	4320	4256
./drivers/freedv	phase.o	2032	2032	1960	1960	2032
./drivers/freedv	pack.o	1512	1512	1516	1532	1508
./drivers/freedv	postfilter.o	1996	1996	2004	2004	1988
./drivers/freedv	varicode.o	4788	4788	4996	5660	4980
./drivers/freedv	sine.o	6908	6908	6844	7380	6940
./drivers/freedv	quantise.o	17576	17576	17832	20780	17744
./drivers/keyboard/usb	usbh_bsp.o	3740	3740	3800	3812	3920
./drivers/keyboard/usb	usbh_usr.o	4996	4996	4996	5060	5004
./drivers/keyboard	keyb_driver.o	1588	1588	1580	1580	1588
./drivers/ui/encoder	ui_rotary.o	3252	3252	3220	3220	3272
./drivers/ui/lcd	ui_lcd_hy28_fonts.o	17392	17392	17392	17392	17392
./drivers/ui/lcd	ui_lcd_hy28.o	21928	21928	22156	34756	22276
./drivers/ui/lcd	ui_spectrum.o	52784	52784	51968	52288	53224
./drivers/ui/oscillator	ui_si570.o	7216	7216	7176	6860	9584
./drivers/ui	ui_configuration.o	13120	13120	13160	14064	13332
./drivers/ui	ui_menu.o	52632	52632	46780	54984	48440
./drivers/ui	ui_driver.o	66884	66884	66508	85628	73544
./cmsis_lib/source	misc.o	1720	1720	1716	1716	1728
./cmsis_lib/source	stm32f4xx_dac.o	3816	3816	3820	3812	3820
./cmsis_lib/source	stm32f4xx_adc.o	7388	7388	7388	7340	7412
./cmsis_lib/source	stm32f4xx_dma.o	4340	4340	4264	4272	4348
./cmsis_lib/source	stm32f4xx_exti.o	2192	2192	2172	2172	2196
./cmsis_lib/source	stm32f4xx_fsmc.o	4688	4688	4584	4584	4816
./cmsis_lib/source	stm32f4xx_flash.o	6896	6896	6868	8608	6896
./cmsis_lib/source	stm32f4xx_i2c.o	7732	7732	7772	7772	7732
./cmsis_lib/source	stm32f4xx_gpio.o	3364	3364	3408	3408	3368
./cmsis_lib/source	stm32f4xx_pwr.o	2888	2888	2896	2896	2888
./cmsis_lib/source	stm32f4xx_spi.o	5132	5132	5124	5116	5148
./cmsis_lib/source	stm32f4xx_rcc.o	8752	8752	8708	8708	8784
./cmsis_lib/source	stm32f4xx_syscfg.o	1940	1940	1944	1944	1968
./cmsis_lib/source	stm32f4xx_wwdg.o	2152	2152	2156	2156	2156
./cmsis_lib/source	stm32f4xx_rtc.o	12956	12956	12516	12660	12968
./cmsis_lib/source	stm32f4xx_usart.o	5952	5952	5972	5972	5984
./cmsis_lib/source	stm32f4xx_tim.o	16368	16368	16288	16256	16696
./cmsis_boot/startup	startup_stm32f4xx.o	10440	10440	10444	10468	10424
./cmsis_boot	system_stm32f4xx.o	1220	1220	1220	1220	1220

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./	main.o	5856	5856	6084	6200	5864
./	main.elf	741836	741836	740088	801072	749748
./	main.bin	438076	438076	434212	476620	439188

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'-Os'	-Ofast	-O2-fif-conversion	-O2-finline-functions	-O2-fbranch-target-load-optimize
4336	5388	4404	4404	4404
12076	14680	12216	12684	12216
2696	3020	2844	2844	2844
2788	2940	2792	2792	2792
8636	8632	8636	8636	8636
6380	6400	6480	6400	6480
3544	3672	3648	3648	3648
4084	4096	4104	4104	4104
2296	2300	2304	2304	2304
4064	4088	4092	4092	4092
3532	3916	3824	3920	3824
2304	2436	2340	2340	2340
3528	3572	3584	3584	3584
1376	1372	1376	1376	1376
5012	5420	5276	5424	5276
1828	1900	1832	1832	1832
3152	3160	3184	3184	3184
3468	3680	3504	3504	3504
1940	1944	1948	1948	1948
7068	7036	7052	7052	7052
3456	4624	3552	4540	3552
3772	3984	3832	3988	3832
6296	7860	6288	7812	6288
944	940	944	944	944
780	776	780	780	780
6744	6824	6772	6836	6772
1396	1392	1396	1396	1396
4976	6680	5300	6684	5300
5000	6572	5728	6412	5728
2920	2928	2932	2932	2932
5060	5288	5304	5292	5304
1480	1476	1480	1480	1480
1024	1020	1024	1024	1024
1076	1072	1076	1076	1076
1636	1632	1636	1636	1636
1096	1092	1096	1096	1096
1092	1088	1092	1092	1092
1100	1096	1100	1100	1100
1332	1328	1332	1332	1332
1552	1548	1552	1552	1552
2216	2212	2216	2216	2216
1332	1328	1332	1332	1332
1996	1992	1996	1996	1996
1332	1328	1332	1332	1332
1332	1328	1332	1332	1332
1124	1120	1124	1124	1124
1788	1784	1788	1788	1788
1332	1328	1332	1332	1332
3108	3104	3108	3108	3108
1332	1328	1332	1332	1332
1332	1328	1332	1332	1332
1332	1328	1332	1332	1332

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1332	1328	1332	1332	1332
1116	1112	1116	1116	1116
1112	1108	1112	1112	1112
1116	1112	1116	1116	1116
1116	1112	1116	1116	1116
1112	1108	1112	1112	1112
1996	1992	1996	1996	1996
1116	1112	1116	1116	1116
1116	1112	1116	1116	1116
1112	1108	1112	1112	1112
1116	1112	1116	1116	1116
1100	1096	1100	1100	1100
1112	1108	1112	1112	1112
1096	1092	1096	1096	1096
1100	1096	1100	1100	1100
1096	1092	1096	1096	1096
1096	1092	1096	1096	1096
1100	1096	1100	1100	1100
2012	2008	2012	2012	2012
1096	1092	1096	1096	1096
6272	6268	6272	6272	6272
3480	3476	3480	3480	3480
3600	3596	3600	3600	3600
2924	2920	2924	2924	2924
2424	2648	2564	2652	2564
22208	22972	22484	22484	22484
7008	7204	7136	7292	7136
776	772	776	776	776
16288	17300	16696	17288	16696
48028	50196	50304	50632	50304
2520	2548	2552	2552	2552
1968	1984	1988	1988	1988
2748	2744	2748	2748	2748
3132	3156	3160	3160	3160
5344	6372	5900	5900	5900
764	760	764	764	764
768	764	768	768	768
1568	1564	1568	1568	1568
1932	1928	1932	1932	1932
2688	2684	2688	2688	2688
3032	3028	3032	3032	3032
5696	5692	5696	5696	5696
82288	82284	82288	82288	82288
42044	42040	42044	42044	42044
1412	1408	1412	1412	1412
1304	1300	1304	1304	1304
21616	21612	21616	21616	21616
2204	2204	2208	2208	2208
99736	99732	99736	99736	99736
764	760	764	764	764
2724	3036	2780	3040	2780
5300	5420	5384	5384	5384
21376	22816	22156	22420	22156

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20804	37908	21420	27908	21420
4080	4468	4300	4300	4300
4124	4308	4116	4172	4116
7376	8088	7616	7616	7616
28688	30380	29308	31636	29308
26676	26852	26696	26696	26696
20992	22252	21952	21952	21952
4320	6044	4460	5468	4460
1092	1096	1128	1128	1128
2932	3136	2992	2992	2992
4440	9608	5088	5196	5088
2672	2720	2724	2724	2724
2124	2272	2256	2264	2256
3852	4440	4016	4356	4016
17368	17172	18060	18060	18060
3292	4116	3320	3872	3320
4084	4792	4244	4244	4244
1952	2128	1960	1960	1960
1504	1528	1516	1532	1516
1940	2024	2004	2004	2004
4480	5656	4996	5576	4996
6668	7300	6844	7356	6844
17312	20580	17832	19224	17832
3788	3808	3800	3812	3800
4952	5056	4996	4996	4996
1576	1576	1580	1580	1580
3216	3216	3220	3220	3220
17392	17388	17392	17392	17392
21980	34752	22156	35520	22156
51404	52168	51968	52088	51968
7140	7588	7176	6868	7176
12992	14060	13160	13896	13160
43500	54988	46780	54908	46780
61292	85208	66508	78540	66508
1716	1712	1716	1716	1716
3776	3808	3820	3812	3820
7336	7336	7388	7340	7388
4200	4268	4264	4272	4264
2164	2168	2172	2172	2172
4524	4580	4584	4584	4584
6808	8604	6868	8608	6868
7756	7768	7772	7772	7772
3248	3404	3408	3408	3408
2884	2892	2896	2896	2896
5028	5112	5124	5124	5124
8624	8704	8708	8708	8708
1940	1940	1944	1944	1944
2156	2152	2156	2156	2156
12704	12656	12516	12664	12516
5816	5968	5972	5972	5972
16104	16252	16288	16252	16288
10432	10464	10444	10444	10444
1220	1216	1220	1220	1220

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6032	6196	6084	6084	6048
742308	800784	740088	800508	740088
416100	475940	434212	465252	434212