

# SCP and MSA #defines for the SpeakJet

This file can be used for your MBHP\_IIC\_SpeakJet Project:

```
/*
 * IIC_SpeakJetDefines.h
 * kII.2
 *
 * Created by Michael Markert, audiocommander.de on 20.05.06
 * Based on Speakjet control codes from July 27, 2004 version of Speakjet
Manual
 * and ASM-Version of Doug Elliott, VA3DAE
 *
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 */

#ifndef _IIC_SPEAKJETDEFINES_H
#define _IIC_SPEAKJETDEFINES_H

// ***** SPEAKJET SCP ***** //
// Serial Control Protocol
#ifdef _DEBUG_C
    #pragma mark -
#endif
#pragma mark SCP

// escape character ('\')
#define SCP_ESCAPE          0x5C
#define SCP_SEL0           0
#define SCP_SEL1           1
#define SCP_SEL2           2
#define SCP_SEL3           3
#define SCP_SEL4           4
#define SCP_SEL5           5
#define SCP_SEL6           6
#define SCP_SEL7           7
#define SCP_EXIT           X

#define SCP_READY          V
#define SCP_CLEAR_BUFFER   R
#define SCP_START          T
#define SCP_STOP           S
```

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#define SCP_MEMTYPE          H
#define SCP_MEMADDR         J
#define SCP_MEMWRT          N

#define SCP_RESET           W

// ***** SPEAKJET MSA ***** //
// Mathematical Sound Architecture
#ifdef _DEBUG_C
    #pragma mark -
#endif

// 0 - 31 CONTROL CODES
#pragma mark MSA Control Codes

#define SJ_PAUSE0           0
#define SJ_PAUSE1           1
#define SJ_PAUSE2           2
#define SJ_PAUSE3           3
#define SJ_PAUSE4           4
#define SJ_PAUSE5           5
#define SJ_PAUSE6           6

#define SJ_NEXTFAST         7
#define SJ_NEXTSLOW         8
#define SJ_NEXTHIGH        14
#define SJ_NEXTLOW         15

#define SJ_WAIT             16

#define SJ_VOLUME           20
#define SJ_SPEED            21
#define SJ_PITCH            22
#define SJ_BEND             23

#define SJ_PORTCTR          24
#define SJ_PORT             25

#define SJ_REPEAT           26

#define SJ_CALLPHRASE       28
#define SJ_GOTOPHRASE       29

#define SJ_DELAY            30
#define SJ_RESET            31

// 32 - 127 (Reserved)
#pragma mark MSA (Reserved)
```

```
// 128 - 254 SOUNDCODES
#pragma mark MSA Sound Codes: Phonemes

#define SJP_IY          128
#define SJP_IH          129
#define SJP_EY          130
#define SJP_EH          131
#define SJP_AY          132
#define SJP_AX          133
#define SJP_UX          134
#define SJP_OH          135
#define SJP_AW          136
#define SJP_OW          137
#define SJP_UH          138
#define SJP_UW          139
#define SJP_MM          140
#define SJP_NE          141
#define SJP_NO          142
#define SJP_NGE         143
#define SJP_NGO         144
#define SJP_LE          145
#define SJP_LO          146
#define SJP_WW          147
#define SJP_RR          148
#define SJP_IYRR        149
#define SJP_EYRR        150
#define SJP_AXRR        151
#define SJP_AWRR        152
#define SJP_OWRR        153
#define SJP_EYIY        154
#define SJP_OHIY        155
#define SJP_OWIY        156
#define SJP_OHIH        157
#define SJP_IYEH        158
#define SJP_EHLL        159
#define SJP_IYUW        160
#define SJP_AXUW        161
#define SJP_IHWW        162
#define SJP_AYWW        163
#define SJP_OWWW        164
#define SJP_JH          165
#define SJP_VV          166
#define SJP_ZZ          167
#define SJP_ZH          168
#define SJP_DH          169
#define SJP_BE          170
#define SJP_B0          171
#define SJP_EB          172
#define SJP_OB          173
#define SJP_DE          174
```

```
#define SJP_D0          175
#define SJP_ED          176
#define SJP_OD          177
#define SJP_GE          178
#define SJP_G0          179
#define SJP_EG          180
#define SJP_OG          181
#define SJP_CH          182
#define SJP_HE          183
#define SJP_H0          184
#define SJP_WH          185
#define SJP_FF          186
#define SJP_SE          187
#define SJP_S0          188
#define SJP_SH          189
#define SJP_TH          190
#define SJP_TT          191
#define SJP_TU          192
#define SJP_TS          193
#define SJP_KE          194
#define SJP_K0          195
#define SJP_EK          196
#define SJP_OK          197
#define SJP_PE          198
#define SJP_P0          199

#pragma mark MSA Sound Codes: Robot
#define SJP_ROBOT_0     200
#define SJP_ROBOT_1     201
#define SJP_ROBOT_2     202
#define SJP_ROBOT_3     203
#define SJP_ROBOT_4     204
#define SJP_ROBOT_5     205
#define SJP_ROBOT_6     206
#define SJP_ROBOT_7     207
#define SJP_ROBOT_8     208
#define SJP_ROBOT_9     209

#pragma mark MSA Sound Codes: Alarms
#define SJP_ALARM_0     210
#define SJP_ALARM_1     211
#define SJP_ALARM_2     212
#define SJP_ALARM_3     213
#define SJP_ALARM_4     214
#define SJP_ALARM_5     215
#define SJP_ALARM_6     216
#define SJP_ALARM_7     217
#define SJP_ALARM_8     218
#define SJP_ALARM_9     219
```

```
#pragma mark MSA Sound Codes: Beeps
#define SJP_BEEP_0      220
#define SJP_BEEP_1      221
#define SJP_BEEP_2      222
#define SJP_BEEP_3      223
#define SJP_BEEP_4      224
#define SJP_BEEP_5      225
#define SJP_BEEP_6      226
#define SJP_BEEP_7      227
#define SJP_BEEP_8      228
#define SJP_BEEP_9      229

#pragma mark MSA Sound Codes: Biological
#define SJP_BIO_0       230
#define SJP_BIO_1       231
#define SJP_BIO_2       232
#define SJP_BIO_3       233
#define SJP_BIO_4       234
#define SJP_BIO_5       235
#define SJP_BIO_6       236
#define SJP_BIO_7       237
#define SJP_BIO_8       238
#define SJP_BIO_9       239

#pragma mark MSA Sound Codes: DTMF
#define SJP_DTMF_0       240
#define SJP_DTMF_1       241
#define SJP_DTMF_2       242
#define SJP_DTMF_3       243
#define SJP_DTMF_4       244
#define SJP_DTMF_5       245
#define SJP_DTMF_6       246
#define SJP_DTMF_7       247
#define SJP_DTMF_8       248
#define SJP_DTMF_9       249
#define SJP_DTMF_S       250
#define SJP_DTMF_R       251

#pragma mark MSA Sound Codes: Misc
#define SJP_SONAR_PING   252
#define SJP_PISTOLSHOT   253
#define SJP_WOW          254

// 255: End of Phrase
#pragma mark MSA EOP

#define SJ_EOP           255

#endif /* _IIC_SPEAKJETDEFINES_H */
```

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