intelHex is a simple tool for viewing intel-hex files.

It's written in Java and should therefore runs on all plattforms which supports java. intelHex viewer is free for private usage.

Usage (for version 1.0.0)

To run this tool you must have instaled java run time.

This tool is a little console program, so to start it invoke a console first.

From the command line enter:

java -jar intelHex.jar -h

you can see the help text and all options allowed for this program.

```
Eingabeaufforderung
D:\tmp\test> java -jar intelHex.jar -h
                                                                                                                                                                         to see
intelHex Viewer (c) Dipl.Ing. Michael Galinski
                                                                                                                                                                         the
Usage: intelHex [-options] File
available options:
    -h or -help
                                 - this help
    -v - print program version
-fi <File> - input File (alternate for File on the end of param)
-fo <File> - output File - redirect program output into the File
-neoel - no errors on empty lines
                              - suppress output of program name
- suppress output of type 1 (Original record content:)
- suppress output of type 2 (Line-No: Record type: ...)
    -spn
     -sot1
    -sot2
    -sot3
                               - suppress output of type 3 (L-No Len Offs Type Data)
                                - suppress output of type 4 (values)
- suppress output of last line (empty line)
    -sot4
    -ot2 no|dec|hex - output type 2 (Line-No: Record type: ...)
-ot3 eo|e<n>[b<n>][a<n>] - output type 3 (Header line Line-No: Record type: ...)
    -ot2 no|dec|hex
                                                                        - output this header only once
                                                                 e<n> - output this header after each <n> lines
                                                                b<n> - process <n> new lines before
                                                                 a<n> - process <n> new lines after
    -ot4_lno no|dec|hex
                                                  - output type 4 - line number (L-No)
    -ot4_lno no|dec|hex - output type 4 - line number (L-No)
-ot4_adr no|dec|hex - output type 4 - address (Addr)
-ot4_len no|dec|hex - output type 4 - record length (Len
-ot4_offs no|dec|hex - output type 4 - address offset (Office off)
-ot4_type no|dec|hex - output type 4 - record type (Type)
-ot4_data no|dec|hex - output type 4 - data bytes (Data)
-ot4_chksum no|dec|hex - output type 4 - checksum (Chksum)
                                                  - output type 4 - record length (Len)
- output type 4 - address offset (Offs)
D:\tmp\test>
```

program version enter: java -jar intelHex.jar -v

```
D:\tmp\test> java -jar intelHex.jar -v
intelHex Viewer (c) Dipl.Ing. Michael Galinski
Version: 1.0.0
D:\tmp\test>
```

to see all possible outputs from a given intel-hex file enter: java -jar intelHex.jar -fi <file>

where: <file> is the name of your intel-hex file

```
:\tmp\test> java -jar intelHex.jar -fi t1.hex
ntelHex Viewer (c) Dipl.Ing. Michael Galinski
riginal line content: :020000040800F2
Line-No: 000001 |Record type: 04 - Ext. L:
lo Addr Len Offs Type Chks Data
08000000 02 0000 04 F2 08 00
                                                        |Lenght: 02
                                                                    |Bit format: 32-bit (I32HEX)
                             - Ext. Lin.
                                       |Address: 08000000
|Bit format: 32-bit (I32HEX)
riginal line content: :1001300010B5054C237833B9044B13B10448AFF321
|Bit format: 32-bit (I32HEX)
riginal line content: :1001A00000AF8A4A894B9B6943F004039361884AF4
|Bit format: 32-bit (I32HEX)
riginal line content: :100230009B899BB243F00C039BB29381654A654B4B
             |Bit format: 32-bit (I32HEX)
Line-No: 000005
     08000230
```

The program outputs 5 formatted lines for each intel-hex record.

You can switch off the output of each formatted line with the option -sot to see only formatted line 1 switch off lines 2+3+4+5, enter: java -jar intelHex.jar -fi <file> -sot2 -sot3 -sot4 -soll

```
D:\tmp\test> java -jar intelHex.jar -fi t1.hex -sot2 -sot3 -sot4 -soll
intelHex Viewer (c) Dipl.Ing. Michael Galinski
Original line content: :020000040800F2
Original line content: :100000000005000203D0600088D0600088D060008FF
                                                The
Original line content: :1001300010B5054C237833B9044B13B10448AFF321
                                                line 5
Original line content: :1001A00000AF8A4A894B9B6943F004039361884AF4
                                                is
Original line content: :100230009B899BB243F00C039BB29381654A654B4B
                                                only
Original line content: :10095800526567205243435F434647523A203078F6
                                                an
Original line content: :08096800000000000000002067
Original line content: :08097000E10600085501000832
Original line content: :040978003101000841
Original line content: :10097C000000000EC02002054030020BC03002007
Original line content: :100A2C000E33CDAB34126DE6ECDE05000B0000008E
Original line content: :00000001FF
```

empty line (last line). To switch it off use option -soll java -jar intelHex.jar -fi <file> -sot2 -sot3 -sot4

```
D:\tmp\test> java -jar intelHex.jar -fi t1.hex -sot2 -sot3 -sot4
intelHex Viewer (c) Dipl.Ing. Michael Galinski
Original line content: :020000040800F2
                                                                   to see
Original line content: :10000000005000203D0600088D0600088D060008FF
                                                                   only
                                                                   formatted
Original line content: :1001300010B5054C237833B9044B13B10448AFF321
                                                                   line 2
                                                                   enter:
Original line content: :1001A00000AF8A4A894B9B6943F004039361884AF4
                                                                   java -jar
Original line content: :100230009B899BB243F00C039BB29381654A654B4B
Original line content: :10095800526567205243435F434647523A203078F6
Original line content: :08096800000000000000002067
Original line content: :08097000E10600085501000832
Original line content: :040978003101000841
Original line content: :10097C0000000000EC02002054030020BC03002007
```

intelHex.jar -fi <file> -sot1 -sot3 -sot4 -soll

```
D:\tmp\test> java -jar intelHex.jar -fi t1.hex -sot1 -sot3 -sot4 -soll intelHex Viewer (c) Dipl.Ing. Michael Galinski
                                                                                                                                                                                                                                         Bit format: 32-bit (I32HEX)
                                                 Record type: 04
                                                                                                                                        |Address: 08000000
                                                                                                                                                                                                   |Lenght: 02
                                                                                                    - Ext. Lin.
                                                                                                                                                                                                    |Lenght: 10
|Lenght: 10
 Line-No: 000002
Line-No: 000003
                                                 Record type: 00
Record type: 00
Record type: 00
                                                                                                   - Data
- Data
                                                                                                                                        |Address: 08000000
|Address: 08000130
                                                                                                                                         Address: 080001a0
                                                                                                                                                                                                     Lenght: 10
  Line-No: 000005
Line-No: 000006
                                                 |Record type: 00
|Record type: 00
                                                                                                    - Data
- Data
                                                                                                                                        |Address: 08000230
|Address: 08000958
                                                                                                                                                                                                    Lenght: 10
Lenght: 10
                                                 Record type: 00
Record type: 00
Record type: 00
  Line-No: 000007
                                                                                                        Data
                                                                                                                                         Address: 08000968
                                                                                                                                                                                                     Lenght: 08
 Line-No: 000008
                                                                                                                                         Address: 08000970
                                                                                                                                                                                                    |Lenght: 08
|Lenght: 04
                                                                                                        Data
                                                                                                        Data
                                                                                                                                         Address: 08000978
                                                 |Record type: 00
|Record type: 00
  Line-No: 00000a
                                                                                                        Data
                                                                                                                                         Address: 0800097c
                                                                                                                                                                                                    Lenght: 10
Lenght: 10
                                                                                                                                         Address: 0800098c
  Line-No: 00000b
                                                                                                        Data
                                                 Record type: 00
Record type: 00
Record type: 00
  Line-No: 00000c
Line-No: 00000d
                                                                                                        Data
                                                                                                                                        |Address: 0800099c
|Address: 08000a2c
                                                                                                                                                                                                     Lenght: 10
                                                                                                                                                                                                    |Lenght: 10
|Lenght: 10
                                                                                                        Data
                                                                                                        Data
                                                                                                                                         Address: 08000cbc
                                                 Record type: 00
 Line-No: 00000f
Line-No: 000010
                                                                                                       Data
Data
                                                                                                                                        |Address: 08000d0c
|Address: 08000d1c
                                                                                                                                                                                                    Lenght: 10
Lenght: 10
  Line-No: 000011
                                                                                                        Data
                                                                                                                                         Address: 08000d6c
                                                                                                                                                                                                     Lenght: 10
  Line-No: 000012
Line-No: 000013
                                                                                                                                                                                                    |Lenght: 10
|Lenght: 10
                                                                                                                                        |Address: 08000d7c
|Address: 08000d8c
                                                                                                        Data
                                                                                                        Data
                                                 |Record type:
|Record type:
 Line-No: 000014
Line-No: 000015
                                                                                                                                                                                                    |Lenght: 0C
|Lenght: 04
                                                                                 00
                                                                                                        Data
                                                                                                                                         Address: 08000d9c
                                                                                                    - Load EIP
                                                                                                                                         Address: 08000000
                                                 Record type:
  Line-No: 000016
                                                                                                                                         Address:
                                                                                                                                                               08000000
  :\tmp\test>
```

- ,Line-No' is the line number for each line from your hex-file
- Record type is the intel-hex record type
- ,Address' is the address of record
- ,Length' is the record length
- Bit format' is the address type (length) of record

You can control the output of formatted line 2 with the option -ot2 no|dec|hex where: no - means no output of formatted line 2 – same as -sot2 java -jar intelHex.jar -fi <file> -sot1 -sot3 -sot4 -soll -ot2 no

```
D:\tmp\test> java -jar intelHex.jar -fi t1.hex -sot1 -sot3 -sot4 -soll -ot2 no
intelHex Viewer (c) Dipl.Ing. Michael Galinski
D:\tmp\test>
```

where: dec - means that all numbers are printed in decimal mode java -jar intelHex.jar -fi <file> -sot1 -sot3 -sot4 -soll -ot2 dec

```
:\tmp\test> java -jar intelHex.jar -fi t1.hex -sot1 -sot3 -sot4 -soll -ot2 dec
ntelHex Viewer (c) Dipl.Ing. Michael Galinski
                                                                                                                                                                            Bit format: 32-bit (I32HEX)
Line-No: 1
                                     Record type: 4
                                                                                                     Address: 134217728
                                                                                                                                                 Lenght: 2
                                                                                                                                                                              |Bit format: 32-bit (I32HEX)
                                                                              Ext. Lin.
                                                                                                     |Address: 134217728
|Address: 134218032
Line-No:
                                     Record type: 0
                                                                              Data
                                                                                                                                                  Lenght: 16
                                     |Record type: 0
|Record type: 0
                                                                                                                                                 Lenght: 16
Lenght: 16
Line-No:
                                                                              Data
Line-No:
                                                                                                     Address: 134218144
                                                                             Data
Line-No:
                                     Record type:
                                                                              Data
                                                                                                     Address: 134218288
                                                                                                                                                  Lenght: 16
Line-No:
                                     Record type:
                                                                                                      Address: 134220120
                                                                                                                                                  Lenght:
                                                                              Data
                                     |Record type: 0
|Record type: 0
|Record type: 0
                                                                                                                                                  Lenght: 8
                                                                                                     Address: 134220136
Line-No:
                                                                              Data
                                                                                                                                                  Lenght: 8
Line-No: 8
                                                                                                     Address: 134220144
                                                                              Data
                                                                                                     Address: 134220152
                                                                                                                                                  Lenght: 4
Line-No:
                                                                              Data
                                     Record type:
Line-No: 10
                                                                              Data
                                                                                                     Address: 134220156
                                                                                                                                                  Lenght: 16
                                                                                                                                                 Lenght: 16
Lenght: 16
                                     |Record type: 0
|Record type: 0
                                                                                                     Address: 134220172
Line-No: 11
                                                                              Data
Line-No:
                                                                                                     Address: 134220188
                                                                              Data
Line-No:
                                     Record type:
                                                                                                     Address: 134220332
                                                                                                                                                  Lenght: 16
                                                                              Data
                                     |Record type: 0
|Record type: 0
                                                                                                                                                  Lenght: 16
Lenght: 16
Line-No:
                                                                              Data
                                                                                                     Address: 134220988
Line-No: 15
                                                                             Data
                                                                                                     Address: 134221068
Line-No: 16
                                                                                                                                                  Lenght: 16
                                     Record type:
                                                                              Data
                                                                                                     Address: 134221084
Line-No:
                                     Record type:
                                                                              Data
                                                                                                     Address: 134221164
                                                                                                                                                  Lenght:
Line-No: 18
                                     Record type: 0
                                                                              Data
                                                                                                     Address: 134221180
                                                                                                                                                  Lenght: 16
Line-No: 19
                                                                                                                                                  Lenght: 16
                                                                                                     Address: 134221196
                                     Record type: 0
                                                                              Data
Line-No: 20
                                     Record type:
                                                                                                     Address: 134221212
                                                                                                                                                  Lenght: 12
                                                                              Data
Line-No: 21
                                                   type:
                                                                              Load EIP
                                                                                                                      134217728
                                                                                                                                                  Lenght:
Line-No: 22
                                     Record type:
                                                                              EoF
                                                                                                     Address: 134217728
                                                                                                                                                 Lenght: 0
:\tmp\test>
```

where: hex - means that all numbers are printed in hexadecimal mode java -jar intelHex.jar -fi <file> -sot1 -sot3 -sot4 -soll -ot2 hex

```
-fi t1.hex -sot1 -sot3 -sot4 -soll -ot2 hex
                                      -jar intelHex.jar
ntelHex Viewer (c) Dipl.Ing. Michael Galinski
                                                                                                                                                                                                         Bit format: 32-bit (I32HEX)
Line-No: 000001
                                          Record type: 04
                                                                                          Ext. Lin.
                                                                                                                    |Address: 08000000
                                                                                                                                                                         Lenght: 02
                                         Record type: 00
|Record type: 00
|Record type: 00
Line-No: 000002
Line-No: 000003
                                                                                          Data
                                                                                                                      Address: 08000000
                                                                                                                                                                          Lenght:
                                                                                          Data
                                                                                                                      Address: 08000130
                                                                                                                                                                         |Lenght: 10
|Lenght: 10
Line-No: 000004
                                                                                          Data
                                                                                                                      Address: 080001a0
Line-No: 000005
Line-No: 000006
Line-No: 000007
                                          Record type:
                                                                                          Data
                                                                                                                      Address: 08000230
                                                                                                                                                                          Lenght:
                                         Record type: 00
Record type: 00
                                                                                                                                                                         |Lenght: 10
|Lenght: 08
                                                                                          Data
                                                                                                                      Address: 08000958
                                                                                                                      Address: 08000968
                                                                                          Data
                                                                                                                                                                        Lenght: 08
|Lenght: 04
|Lenght: 10
|Lenght
Line-No: 000008
Line-No: 000009
Line-No: 00000a
                                          Record type:
                                                                                          Data
                                                                                                                      Address: 08000970
                                         |Record type: 00
|Record type: 00
                                                                                          Data
                                                                                                                      Address: 08000978
                                                                                                                      Address: 0800097c
                                                                                          Data
Line-No: 00000b
Line-No: 00000c
Line-No: 00000d
                                          Record type:
                                                                                          Data
                                                                                                                      Address: 0800098c
                                         |Record type: 00
|Record type: 00
                                                                                                                                                                          Lenght: 10
Lenght: 10
                                                                                          Data
                                                                                                                      Address: 08000990
                                                                                          Data
                                                                                                                      Address: 08000a2c
                                         |Record type: 00
|Record type: 00
|Record type: 00
Line-No: 00000e
                                                                                          Data
                                                                                                                      Address: 08000cbc
                                                                                                                                                                          Lenght:
Line-No: 000001
Line-No: 000010
                                                                                                                                                                          Lenght: 10
Lenght: 10
                                                                                          Data
                                                                                                                      Address: 08000d0c
                                                                                          Data
                                                                                                                      Address: 08000d1c
Line-No: 000011
Line-No: 000012
Line-No: 000013
                                         Record type: 00
Record type: 00
Record type: 00
                                                                                          Data
                                                                                                                      Address: 08000d6c
                                                                                                                                                                          Lenght:
                                                                                                                                                                         |Lenght: 10
|Lenght: 10
                                                                                          Data
                                                                                                                      Address: 08000d7c
                                                                                          Data
                                                                                                                      Address: 08000d8c
                                                                                                                                                                        |Lenght: 0C
|Lenght: 04
|Lenght: 00
 Line-No: 000014
                                          Record type:
                                                                                                                      Address: 08000d9c
                                                                                          Data
Line-No: 000015
                                         |Record type: 05
|Record type: 01
                                                                                          Load EIP
                                                                                                                      Address: 08000000
Line-No: 000016
                                                                                                                     Address: 08000000
 :\tmp\test>
```

```
java -jar intelHex.jar -fi t1.hex -sot1 -sot2 -sot4 -soll
D:\tmp\test>
intelHex Viewer (c) Dipl.Ing. Michael Galinski
          Addr
                        Len
                             0ffs
                                    Type
                                           Chks
No
                                                  Data
No
          Addr
                             0ffs
                                    Type
                                           Chks
                        Len
                                                  Data
                             0ffs
No
          Addr
                        Len
                                    Type
                                           Chks
                                                  Data
          Addr
                             0ffs
                                    Type
                                           Chks
No
                        Len
                                                  Data
                             0ffs
No
          Addr
                        Len
                                    Type
                                           Chks
                                                  Data
                             0ffs
۷o
          Addr
                        Len
                                    Type
                                           Chks
                                                  Data
                             0ffs
                                           Chks
Nο
          Addr
                        Len
                                    Type
                                                  Data
          Addr
                             0ffs
                                           Chks
No
                        Len
                                    Type
                                                  Data
No
          Addr
                             0ffs
                                    Type
                                           Chks
                        Len
                                                  Data
No
          Addr
                             Offs
                                    Type
                                           Chks
                        Len
                                                  Data
          Addr
                             0ffs
                                           Chks
No
                        Len
                                    Type
                                                  Data
                             0ffs
Vo
          Addr
                        Len
                                    Type
                                           Chks
                                                  Data
Vo
          Addr
                        Len
                             Offs
                                    Type
                                           Chks
                                                  Data
          Addr
                             0ffs
                                           Chks
۷o
                        Len
                                                  Data
                                    Type
          Addr
                             0ffs
                                           Chks
                                                  Data
۷o
                        Len
                                     Type
          Addr
                             0ffs
                                           Chks
                                                  Data
۷o
                        Len
                                    Type
```

Formated line 3 ist only the header line for formattted line 4.

to see only formatted line 4 enter: java -jar intelHex.jar -fi <file> -sot1 -sot2 -sot3 -soll

```
:\tmp\test> java -jar intelHex.jar -fi t1.hex -sot1 -sot2 -sot3 -soll
intelHex Viewer (c) Dipl.Ing. Michael Galinski
         08000000
                          9999
                                      F2
                     02
                                94
                                             08 00
         08000000
                     10
                          0000
                                99
                                      FF
                                             00 50 00 20 3D 06 00 08 8D 06 00 08 8D 06 00
                                             10 B5 05 4C
         08000130
                          0130
                                aa
                                      21
                                                         23 78 33 B9 04 4B 13 B1 04 48 AF
                     10
         080001a0
                     10
                          01a0
                                00
                                      F4
                                             00 AF
                                                  8A 4A 89 4B 9B 69 43 F0 04 03 93 61 88 4A
         08000230
                     10
                          0230
                                00
                                      4B
                                             9B 89 9B B2 43 F0 0C 03 9B B2 93 81 65 4A 65 4B
         08000958
                     10
                          0958
                                00
                                      F6
                                             52 65 67
                                                     20 52 43 43 5F 43 46 47 52 3A 20 30 78
         08000968
                          0968
                                00
                                                     00 00 00 00 20
                     98
                                      67
                                             00 00
                                                  00
         08000970
                     98
                          0970
                                00
                                      32
                                             E1 06 00 08
                                                         55 01 00 08
         08000978
                     04
                          0978
                                00
                                             31 01 00 08
10
         0800097c
                     10
                          097c
                                00
                                      07
                                             00 00 00 00 EC 02 00 20 54 03 00 20 BC 03 00
                                                                                           20
11
                                00
         0800098c
                     10
                          098c
                                      5B
                                             00 00 00
                                                     00
                                                         00
                                                            00
                                                               00
                                                                  00 00 00
                                                                           00
                                                                              00
                                                                                 00
                                                                                    00
12
13
         0800099c
                          099c
                                00
                                      4B
                                             00 00 00 00 00 00 00 00 00 00
                                                                                           00
                     10
                                                                              00 00 00
                                                                                       00
         08000a2c
                     10
                          0a2c
                                00
                                      8E
                                             0E 33 CD AB
                                                        34 12 6D E6 EC DE 05 00 0B 00 00
14
                                00
                                      28
                                             00 00 00 00 00 00 00 00 00 00
         08000chc
                     10
                                                                              99 99 99
                                                                                       99
                                                                                           99
                          0chc
15
         08000d0c
                     10
                          0d0c
                                00
                                      D7
                                             00 00
                                                  00
                                                      00
                                                         00
                                                            00
                                                               00
                                                                  00
                                                                     00
                                                                        00
                                                                           00
                                                                              00
                                                                                 00
                                                                                    00
                                                                                        00
16
         08000d1c
                                00
                                      C7
                                             00 00 00
                                                         00 00
                                                               00
                                                                  00 00
                     10
                          0d1c
                                                     00
                                                                        00
                                                                           00
                                                                              00 00
                                                                                    00
                                                                                       00
                                                                                           00
17
         08000d6c
                     10
                          0d6c
                                00
                                      77
                                             18
                     10
                          0d7c
                                00
                                      67
                                             00 00 00 00 00 00 00 00 00 00
                                                                              00 00 00 00 00
         08000d7c
19
         08000d8c
                     10
                          0d8c
                                00
                                      57
                                                00
                                                  00
                                                      00 00 00
                                                               00
                                                                  00 00
                                                                        00
                                                                           00
                                                                              00
                                                                                 00 00 00 00
                                00
20
         98999d9c
                     ac
                          0d9c
                                      DF
                                             00 00 00 00 00 00 00 00 48 04 00 20
21
         08000000
                     04
                          0000
                                05
                                      AC
                                             08 00 06 3D
                                      FF
                     00
                          0000
                                91
         08000000
D:\tmp\test>
```

You can control the output of header line (formatted line 3) with the option -ot3 eo|e< n>[b< n>] [a<n>]

where: eo - means output header line only once java -jar intelHex.jar -fi <file> -sot1 -sot2 -soll -ot3 eo

```
D:\tmp\test> java -jar intelHex.jar -fi t1.hex -sot1 -sot2 -soll -ot3 eo
intelHex Viewer (c) Dipl.Ing. Michael Galinski
                       0ffs
Νo
        Addr
                   Len
                             Type
                                  Chks
                                        Data
        0800000
                   02
                       0000
                             04
                                  F2
                                        08 00
        08000000
                       0000
                             00
                                        00 50 00 20 3D 06 00 08 8D 06 00 08 8D 06 00 08
                   10
        08000130
                   10
                       0130
                             00
                                        10 B5 05 4C 23 78 33 B9 04 4B 13 B1 04 48 AF F3
                             00
                                  F4
                                        00 AF 8A 4A 89 4B 9B 69 43 F0 04 03 93 61 88 4A
        080001a0
                   10
                       01a0
        08000230
                   10
                       0230
                             00
                                  4B
                                        9B 89 9B
                                                B2 43 F0 0C 03 9B B2 93 81 65 4A 65 4B
                                        52 65 67
        08000958
                   10
                       0958
                             00
                                  F6
                                                20 52 43 43 5F 43 46 47 52 3A 20 30
        08000968
                   98
                       0968
                             00
                                  67
                                        00 00 00 00 00 00 00 20
                                        E1 06 00 08 55 01 00 08
        08000970
                   98
                       0970
                             00
                                  32
        08000978
                   04
                       0978
                             00
                                  41
                                        31 01 00 08
10
        0800097c
                                  07
                                        00 00 00 00 EC 02 00 20 54 03 00 20 BC 03 00 20
                   10
                       097c
                             AA
11
        0800098c
                   10
                       098c
                             00
                                  5B
                                        12
        0800099c
                   10
                       099c
                             00
                                  4B
                                        13
        08000a2c
                   10
                             00
                                  8E
                                        0E 33 CD AB
                                                  34 12 6D E6 EC DE
                                                                   05 00 0B 00
                                                                              00
                       0a2c
                                                                                 00
14
        08000cbc
                   10
                       0cbc
                             00
                                  28
                                        00 00
                                             00 00
                                                  00 00
                                                        00
                                                          00
                                                             00
                                                                00
                                                                   00 00 00 00
                                                                              00
                                                                                 aa
15
        08000d0c
                   10
                       0d0c
                             00
                                  D7
                                        00 00 00 00 00 00 00 00 00 00 00 00 00
                                                                              00
                                                                                 99
16
        08000d1c
                   10
                       0d1c
                             00
                                  C7
                                        17
        08000d6c
                   10
                       0d6c
                             00
                                  77
                                        00 00 00 00 00 00 00 00 00 00 00 00 00
                                                                              00 00
18
        08000d7c
                   10
                       0d7c
                             00
                                  67
                                        00 00 00 00 00
                                                        00 00
                                                             00
                                                                00 00 00 00 00 00
19
        08000d8c
                   10
                       0d8c
                             00
                                  57
                                        20
        08000d9c
                   øС
                       0d9c
                             99
                                  DF
                                        00 00 00 00 00 00 00 00 48 04 00 20
21
        08000000
                   04
                       0000
                             05
                                  AC
                                        08 00 06 3D
        08000000
                             01
                                  FF
22
                   00
                       0000
D:\tmp\test>
```

where: e<n> - means output header line each <n> output lines java -jar intelHex.jar -fi <file> -sot1 -sot2 -soll -ot3 e3

```
C:\tmp\test> java -jar intelHex.jar -fi t1.hex -sot1 -sot2 -sol1 -ot3 e3
ntelHex Viewer (c) Dipl.Ing. Michael Galinski
        Addr
       08000000
08000000
                         0000
0000
                               04
00
                    02
10
                                            08 00
00 50 00 20 3D 06 00 08 8D 06 00 08 8D 06 00 08
                                             10 B5 05 4C 23 78 33 B9 04 4B 13 B1 04 48 AF F3
                         0ffs
01a0
                                            Data

00 AF 8A 4A 89 4B 9B 69 43 F0 04 03 93 61 88 4A

9B 89 9B B2 43 F0 0C 03 9B B2 93 81 65 4A 65 4B

52 65 67 20 52 43 43 5F 43 46 47 52 3A 20 30 78
                               Type
00
00
                                      Chks
        Addr
        080001a0
        08000230
                    10
                         0230
        Addr
08000968
                         0ffs
0968
                                            Data
00 00 00 00 00 00 00 20
                                            E1 06 00 08 55 01 00 08
31 01 00 08
                    08
04
                         0970
0978
                               99
99
        08000970
        08000978
                                            Addr
0800097c
                                      Chks
07
                    Len
10
        0800098c
                         098c
        0800099c
                    10
                         099c
                                            Addr
08000a2c
                               Type
00
                    10
                         0a2c
        08000d0c
                    10
                         0d0c
        Addr
                                Type
        08000d1c
                    10
10
                                            0d1c
                               00
                         0d6c
                         0d7c
Offs
        08000d7c
                                            Addr
                                            Data
                                Type
                                            08000d8c
                         0d8c
                               00
00
        08000d9c
                         0d9c
                         0000
Offs
        08000000
        Addr
                    Len
                                      Chks
                                            Data
        08000000
:\tmp\test>
```

where: b<n> - means output empty <n> lines before header line where: a<n> - means output empty <n> lines after header line java -jar intelHex.jar -fi <file> -sot1 -sot2 -soll -ot3 e3b1

```
:\tmp\test> java -jar intelHex.jar -fi t1.hex -sot1 -sot2 -soll -ot3 e3b1
ntelHex Viewer (c) Dipl.Ing. Michael Galinski
                            Len Offs Type
02 0000 04
10 0000 00
10 0130 00
          08000000
08000130
                                                              00 50 00 20 3D 06 00 08 8D 06 00 08 8D 06 00 08
10 B5 05 4C 23 78 33 B9 04 4B 13 B1 04 48 AF F3
                            Len
10
10
                                   0ffs
01a0
0230
                                            Type
00
00
00
          Addr
                                                     Chks
                                                              Data
                                                     F4
4B
F6
                                                              DBCA

00 AF 8A 4A 89 4B 9B 69 43 F0 04 03 93 61 88 4A

9B 89 9B B2 43 F0 0C 03 9B B2 93 81 65 4A 65 4B

52 65 67 20 52 43 43 5F 43 46 47 52 3A 20 30 78
          080001a0
08000230
                             10
                            08
08
04
                                   0968
0970
0978
                                            00
00
                                                              00 00 00 00 00 00 00 20
E1 06 00 08 55 01 00 08
31 01 00 08
                                                     67
32
41
          08000968
          Addr
0800097c
0800098c
                                   Offs
097c
098c
                                                     Chks
07
5B
                            Len
10
10
10
                                            Type
00
00
00
                                                              Type
00
00
00
                                                              0a2c
0cbc
0d0c
                                                     8E
28
D7
                            10
10
10
          08000a2c
          08000d2c
                                                     Chks
C7
77
                                                              Addr
08000d1c
                            Len
10
10
                                   Offs
0d1c
                                            Type
00
00
                                    0d6c
0d7c
           98999d7d
          Addr
                                                     Chks
                                                              Data
          08000d8c
08000d9c
08000000
                            10
0C
04
                                   0d8c
0d9c
0000
                                            00
00
05
                                                              Addr
08000000
                            Len Offs Type
00 0000 01
                                                     Chks
FF
:\tmp\test>
```

java -jar intelHex.jar -fi <file> -sot1 -sot2 -soll -ot3 e3b1a1

```
D:\tmp\test> java -jar intelHex.jar -fi t1.hex -sot1 -sot2 -soll -ot3 e3b1a1
intelHex Viewer (c) Dipl.Ing. Michael Galinski
                                              Len Offs Type Chks Data
                   Addr
                   08000000
08000000
                                              02
10
                                                         0000 04
0000 00
                                                                                                  08 00
00 50 00 20 3D 06 00 08 8D 06 00 08 8D 06 00 08
                   08000130
                                                         0130
                                                                      00
                                                                                                   10 B5 05 4C 23 78 33 B9 04 4B 13 B1 04 48 AF F3
                                                                                                  00 AF 8A 4A 89 4B 9B 69 43 F0 04 03 93 61 88 4A 9B 89 9B 82 43 F0 0C 03 9B 82 93 81 65 4A 65 4B 52 65 67 20 52 43 43 5F 43 46 47 52 3A 20 30 78
                   080001a0
                                                         01a0 00
                   08000230
08000958
                                              10
                                                         0230 00
0958 00
                                                                                    4B
F6
                                              Len Offs Type
                                                                                    Chks
                                                                                                 Data
                   Addr
                                                                                                  00 00 00 00 00 00 00 20
E1 06 00 08 55 01 00 08
31 01 00 08
                   08000968
                                                         0968
                                                                      00
                                                                      00
00
                                                                                     32
41
                   08000970
                                              08
                                                         0970
                    08000978
                                              04
                   0800097c
                                              10
                                                         097c
                                                                                     07
                                                                                                  00
                                                                                    5B
4B
11
12
                   0800099c
                                                         099c
                                                                       00
                                              10
                                              Len Offs Type
                   Addr
                                                                                    Chks
                                                                                                 Data
                                                                                                  08000a2c
                                                                                     28
D7
                   08000cbc
                                              10
                                                         0cbc
0d0c
                                                                       00
                                              Len Offs Type
                   Addr
                                                                                                  Data
No

        00
        00
        00
        00
        00
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        00
        00
        00
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        00
        00
        00
        00
        00
        00
        00<
                   08000d1c
                                                         0d1c
                                              10
                                                                                    77
67
                   08000d6c
08000d7c
18
                                              10
                                                         0d7c
                                                                       00
                   Addr
                                                                                    Chks
                                                                                                  08000d8c
                                                         0d8c
                                              0C
04
20
21
                   08000d9c
                                                         0d9c
                                                                       99
                                                                                     DF
                                                         0000
                                                                       05
                                                                                     AC
                   Addr
                                              Len Offs Type Chks Data
                                              00
                                                         0000 01
                   08000000
D:\tmp\test>
```

You can control the output of line4 with the option -ot4
The header line for the given column will be correspond automatically controlled.
to switch off the output of columns ,Type' and ,Chks' enter:
java -jar intelHex.jar -fi <file> -sot1 -sot2 -soll -ot3 e8b1a0 -ot4 type no -ot4 chksum no

```
D:\tmp\test> java -jar intelHex.jar -fi t1.hex -sot1 -sot2 -soll -ot3 e8b1a0 -ot4_type no -ot4_chksum no
intelHex Viewer (c) Dipl.Ing. Michael Galinski
        Addr
                   Len
                       Offs
                             Data
        аяаааааа
                   02
10
                        0000
                             08 00
                             00 50 00 20 3D 06 00 08 8D 06 00 08 8D 06 00 08 10 B5 05 4C 23 78 33 B9 04 4B 13 B1 04 48 AF F3 00 AF 8A 4A 89 4B 9B 69 43 F0 04 03 93 61 88 4A
                       aaaa
        аяаааааа
                   10
                       0130
        08000130
        080001a0
                   10
                       01a0
                             9B 89 9B B2 43 F0 0C 03 9B B2 93 81 65 4A 65 4B
                   10
        08000230
                       0230
                        0958
                             52 65 67 20 52 43 43 5F 43 46 47 52 3A 20 30 78
        08000958
                   10
        08000968
                   98
                        0968
                             00 00
                                   00 00 00 00 00
                             E1 06 00 08 55 01 00 08
        08000970
                             Data
        08000978
                        0978
                             31 01 00 08
        0800097c
                        097c
                             00 00 00 00 EC 02 00 20 54 03 00 20 BC 03 00 20
11
12
13
14
15
16
        0800098c
                   10
                        098c
                             00 00
                                   00 00 00 00 00 00 00 00 00 00 00
        0800099c
                   10
                        099c
                             08000a2c
                   10
                        0a2c
                                   CD AB
                                        34 12 6D E6 EC
                                                      DE 05 00 0B 00 00 00
        08000cbc
                        0cbc
                             98999d9c
                   10
                        0d0c
                             98999d1c
                        0d1c
No
17
18
19
        Addr
                   Len
                       0ffs
                             Data
        08000d6c
                             10
                        0d6c
                             10
        98999d7c
                       0d7c
        08000d8c
                   10
                        0d8c
20
                             00 00 00 00 00 00 00 00 48 04 00 20
        08000d9c
                        0d9c
                   ØC
        08000000
                        0000
                             08 00 06 3D
        08000000
 :\tmp\test>
```

This tool checks the format of the input file which must be correct intel-hex one. If you have empty lines in the input file, you can ignore this with the option -neoel Normally empty lines are not allowed in the intel-hex file and the tool will terminate on error.

Also you can redirect the output to the file with the option -fo <File>

Enjoy your new intelHex viewer tool!