## How to use "HexAreaChecker" (Hex file address space confirmation tool)

## First of all

This file is the viewer of the Hex file. Main purpose is to check the address space.

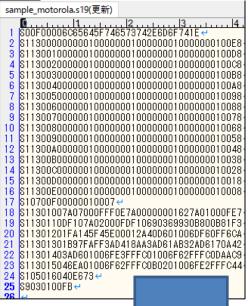
It supports Motorola S-record format (.s19, .mot) and Intel HEX format (.hex), and automatically determines the format when reading.

Correspondence:

Motorola S-record format: Record Field=S0~S3, S5~S9 (S4 is not responding because it is Reserved) Intel HEX format: Recode Type=00~05

HexAreaChecker also checks the data length and checksum, so it can be used for confirming the checksum after editing data. Numbers are written in hexadecimal notation except for the "No." column of the Summary sheet.

#### Sample Hex file



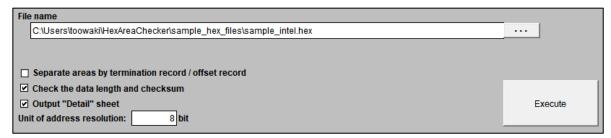
#### **Detailed result: (Detail sheet)**

	Α	В	С	D	E	F	G	Н	I J	K
1	Type ▼	Cnt 🕶	Address ▼	Data	▼ ChkSum ▼	₩	Address 🔻	Ŧ	▼ START/END	▼ Log ▼
2	S0	0F	0000	6C65645F746573742E6D6F74	1E				(Start of file)	
3	S1	13	0000	00000100000001000000010000000100	E8		0000	-	000F START	
4	S1	13		00000100000001000000010000000100	D8		0010	-	001F	
5	S1	13	0020	00000100000001000000010000000100	C8		0020	-	002F	
6	S1	13		00000100000001000000010000000100	B8		0030	-	003F	
- 7	S1	13	0040	00000100000001000000010000000100	A8		0040	-	004F	
8	S1	13		00000100000001000000010000000100	98		0050	-	005F	
9	S1	13		00000100000001000000010000000100	88		0060	-	006F	
10	S1	13	0070	00000100000001000000010000000100	78		0070	-	007F	
11	S1	13		00000100000001000000010000000100	68		0080	-	008F	
12	S1	13	0090	00000100000001000000010000000100	58		0090	-	009F	
13	S1	13		00000100000001000000010000000100	48		00A0	-	00AF	
14	S1	13		00000100000001000000010000000100	38		00B0	-	00BF	
15	S1	13	00C0	00000100000001000000010000000100	28		00C0	-	00CF	
16	S1	13	00D0	00000100000001000000010000000100	18		00D0	-	00DF	
17	81	13		00000100000001000000010000000100	08		00E0	-	00EF	
18	S1	07		00000100	07		00F0	-	00F3 END	
19	S1	13	0100	7A07000FFF0E7A00000001627A01000F	E7		0100		010F START	
20	S1	13	0110	DF107A02000FDF10690369930B800B81	F3		0110	-	011F	
21	S1	13	0120	1FA145F45E00012A40D601006DF60FF6	CA		0120	-	012F	
22	81	13	0130	1B97FAFF3AD418AA3AD61AB32AD6170A	42		0130	-	013F	
23	S1	13	0140	3AD601006FE3FFFC01006F62FFFC0DAA	C9		0140	-	014F	
24	S1	13	0150	46EA01006F62FFFC0B0201006FE2FFFC	44		0150	-	015F	
25	S1	05	0160	40E6	73		0160	-	0161 END	
26	29	03	0100		FB				(Terminate)	

#### Summary results (Summary sheet)

- 4	Α	В	С	D	Ε	F	G	Н	
1	Format:	Motorola:	3- re	ecord					
2	File:	C:¥Users¥t	00%	<u>rak i¥De</u>	sktop¥l	Hex Area Che	<u>cker¥sample</u>	e motorola <i>s</i>	19
3									
4	No.	Address			Size				
5	1	0000	-	00F3	00F4				
6	2	0100	-	0161	0062				
7									

### 2 Usage



#### [Step1]

Please select Hex file.

#### [Step2]

Please press the "Execute" button.

Detailed result is output on Detail sheet, summary result is output on Summary sheet.

\* Do not edit other Excel files while scripts is running.

#### [Option setting]

You can choose whether or not to separate the address space by "Separate areas by termination record / offset record".

#### Termination record

Motorola S-record format: Record Field=S7, S8, S9

Offset record

Intel HEXformat: Recode Type=02, 04

#### 3 Reference: About Hex file

For Hex files, please see below

Motorola S-record format:

[SREC (file format) - Wikipedia]

https://en.wikipedia.org/wiki/SREC (file format)

Intel HEXformat:

[Intel HEX - Wikipedia]

https://ja.wikipedia.org/wiki/Intel\_HEX

#### 4 Operating environment

Excel2007, Excel2010, Excel2013, Excel2016,

Excel2019(Tested by Office365 MSO(16.0.11425.20220) 32bit)

#### 5 Terms of use

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Please use this program at your own risk.

#### 7 Contact

If you have any requests, please email toowaki.fc2@gmail.com.

In addition, please have a look, if it is good, since it is open to the following URL besides this software. http://toowaki.web.fc2.com/

# 8 History

日付	内容	Ver.	編集者
2017/7/7	Create New		toowaki
2017/11/3	I made it easy to understand the progress situation	1.1	
2017/01/19	Corrected to open and analyze Hex file as read only	1.2	
2018/10/07	Added control of data length and checksum check	1.3	
2018/10/13	Added control of output detail sheet	1.4	
2019/04/14	VBA overflowed when the address exceeded 0x7FFFFFF.	1.5	
	Therefore, it has been fixed.		
2019/09/07	- When the address is larger than 0x7FFFFFF, it was not displayed correctly.	1.6	
	So, it was corrected.		
	- Corrected the behavior of S5 and S6 in Motorola S-record format (S19) format.		
2020/10/12	- Added unit of address resolution.	1.7	
2020/12/30	Fixed to work for addresses over 32 bits when using Intel HEX	1.8	