



Conversion Utilities

bin2hex hex2bin compbin mergebin

User Guide

Version 1.00

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Overview

This document describes the function of four utilities:

bin2hex.exe	Convert binary file to Intel Hex file
hex2bin.exe	Convert Intel Hex file to binary file
compbin.exe	Compare two binary files and report differences
mergebin.exe	Merger two files creating a third file at start address

bin2hex.exe and **hex2bin.exe** are useful conversion utilities to convert to and from Intel Hex format. Both utilities support Type 2 and Type 4 Extended record format. Not all programming utilities support both Extended record types so these utilities allow you to convert between the two formats. **bin2hex** has a maximum output file size of 12mbytes – this is a compile time option. These utilities provide a convenient way to convert image and data files to and from binary format for uploading or downloading to embedded processors. As command line programs they can be invoked by other programs to perform conversion functions such as DOS batch. Both programs exit with return code 0 for success or –1 for failure.

Command sequence to convert hex file from type 4 to type 2.

```
>hex2bin target.hex tempfoo.bin  
>bin2hex tempfoo.bin target.hex 0 2  
>erase tempfoo.bin
```

compbin.exe is a binary file comparison utility. **compbin** compares two binary files byte by byte and reports any differences. The start and end address range can be specified in hex format.

mergebin.exe merges two binary files to create a third binary files that is the combination of the two files at some offset location. The second file overwrites the contents of the first file at a specified offset location from the start of the file.

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bin2hex

bin2hex.exe is a Windows command line program that converts a binary file into an IntelHex file. Type 2 and Type 4 extended hex record generation is supported (default is type 4) and the initial start address can be optionally defined. The program generates 16 hex byte records per line.

Program invocation to generate a Type 2 extended record hex file:

```
>bin2hex infoo.bin outfoo.hex 0 2
or
>bin2hex
Input file name: infoo.bin
Output file name: outfoo.hex
Start address (long hex): 0
Extended Record type [2,4]: 2
```

hex2bin

hex2bin.exe is a Windows command line program that converts an Intel Hex file into binary file. Type 2 and Type 4 extended hex record recognition is supported. An optional fill char can be defined in hex format. Maximum output file size supported is 12mbytes.

Program invocation:

```
>hex2bin infoo.hex outfoo.bin ff
or
>hex2bin
Input file name: infoo.hex
Output file name: outfoo.bin
Enter fill character = ff
```

compbin

compbin.exe is a Windows command line program that compares the content of two binary files and reports any differences. Start and end address can be set. If no end address is entered the comparison continues until the end of either file is reached.

Program invocation:

```
>compbin infoo1.bin infoo2.bin 0 20000
or
>compbin
Compbin Version 1.0
Input file name 1: infoo1.bin
Input file name 2: infoo2.bin
Start address (long hex): 0
End address (long hex): 20000
```

mergebin

mergebin.exe merges two binary files to create a third binary file that is the combination of the two files with the second file added to the first file at a specific starting address. The second file overwrites the contents of the first file beginning at the specified starting address. The two input files are not modified.

Program invocation:

```
>mergebin infoo1.bin infoo2.bin outfoo.bin 20000
```

or

```
>mergebin
Mergebin Version 1.0
Input file name1: infoo1.bin
Input file name2: infoo2.bin
Output file name: outfoo.bin
Merge start address (long hex): 20000
```