Changing Margins in Microsoft Word
by Vincent Latona
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The following is an article I wrote, (I'm really a frustrated author), to illustrate how to change the pre-set margins in MS Word. I hope it will be of some benefit to you since it really helped me out. I understand that MS Word ver 3.0, which is due for release in Jan. '87 will be able to do this things. Maybe it's one of those "we'll see now" things. Any comments will be appreciated.

Beginnings

"Sincerely yours, Vince Latona". OK. Now to print this letter out. Insert the paper, Command P, Return and **AAAAGGGGHHHH!!**. Not again!! Its printing on top of my letterhead logo. I forgot to reset the margins again. Oh well. Command "." Pull down the File Menu and go to Page Setup to reset the margins. This is really frustrating since I use the same paper all of the time and I can't just change the margins once and for all.

After the above scenario once too often and at the urging of my wife, she hates to hear me go **AAAAGGGGHHHH!!**, I decided to tackle this project. Little did I know what I was in for.

MS Word is a great word processor but, besides other features that would be nice, one item which is REALLY frustrating is not being able to save basic setups like you can in Applewriter, Appleworks, /// EZ Pieces, etc. Sooooo. One quick phone call to Microsoft, find out where in the program they store those preset margins, change them and it's all over right? Wrong! First, after finding someone to talk to, that took three phone calls, Microsoft said that the margins are "unchangeable", whatever that means. I always thought that only things like death and taxes are "unchangeable" not some pile of hex code.

Challenges

OK. So I'll ask my friends and some hackers what they think it'll take. Everybody said that's the dumbest project I ever heard of. Why don't you just make up a document named "Dummy" with the margins you want, then load it in, write your letter and save it as "Save As....". Nice idea but after saving my letters as "Dummy" more than a few times, I began to think of myself as that namesake. No...there's got to be a better way.

How about MAUG. Post a message to ALL and see what happens. They thought even less of this idea than my friends but were more polite about it. I did learn one very important item in MAUG and that's what an MS Word basic unit is, but that's getting ahead of this story. Being dedicated to this useless cause I continued to forge ahead.

First, I decided to fire up FEdit 3.5 and scan through the file (MS Word) and attempt to search for 1". Since that's the preset top margin it makes sense that they would have stored a 1 someplace and used it. I found a bunch of ones all over the place. I just picked a point changed a one to a two. Saved my changes and ran the 'new' program. Boy did I do some strange things besides the inevitable crashes. Changing binary ones creates some interesting results. You can turn off menus etc., not allow saving of files, disable typing and a whole bunch of other useless things. Obviously, this was not the way to go about this.

Reading an article about changing paper sizes in the ImageWriter drivers brought to light the fact that those paper sizes are stored in Hex as conversions of pixel numbers. There are 70 pixels per inch and therefore in my now numbing mind the number I was looking for in Word was 70 in decimal or 46 in Hex. Away again on another round of searching and changing the 46 Hex brought nothing but more **AAAGGGHHH!!'s** and this was supposed to be bringing and end to those. I wonder if Bill Atkinson has these kind of problems.

The light comes on

Finally from a file called MS Word File Format, I found out that I still don't know a thing about "C" which is what it explains but I did read that an MS Word basic unit is 1/20 of a point. One point equals 1/72 of an inch so therefore a basic unit is 1/1440 of an inch. With this information I was now ready to start to see what could really be done. Sounds like a turning point.

Since even I know that the code of the program if stored in hexadecimal, the first thing that has to be done is to convert some of those numbers into hexadecimal. All you have to do is multiply the inches by 1440 (units per inch). For example 1.25" equals 1800 decimal or 0708 Hex. Here's what a short table looks like:

Inches	Decimal	Hexadecimal
0.50"	720	02D0
1.00"	1440	05A0
1.25"	1800	0708
1.50"	2160	0870
2.50"	3600	0E10

Next item was to try and find out where in the program these numbers are 'hiding'. Using FEdit 3.5 I did a Hex search for the number '05A0' which of course is 1" which is the pre-set default top margin. Unfortunately, I came up with over 33 places where this appeared. I dutifully wrote them all down, I said I was dedicated, and then went on a search for '0708' (1.25"). This is the pre-set left and right margins and I figured that wherever the new search and the first search came up within the same sector that I had a pretty good chance of finding the other margins there also.

Well, it didn't take too long, about 4 searches and I found a match and then two more and that was about it. Taking the first one as a guess, (have to start somewhere, right?), I found '05A0' of Sector 2C at byte 593A and 593B. (see figure 1). Changing this with the Hex modify command of FEdit 3.5 to 0E10 (2.5") did the trick. Obviously after the change you have to "W"rite the sector back to the disk and then run it to see the change. Sure enough right there before by eyes was "Top" 2.5". Eureka!!!! the boy is college material. Unfortunately, all is not well however.

The light gets a lot dimmer before its brighter.

Right where the bottom margin used to say 1" it now said -0.5". What happened? Did the program decide all by itself to change that since I changed the top.? It sure did! By playing with those numbers I discovered? that the program has a pre-set (again) area which I came to call the 'printable' area. Somewhere in this program it subtracts one margin from the printable area in order to get the other margin. In other words if you change the top margin it automatically changes the bottom. This is definitely NOT what I had in mind when I started this.

For US Letter Paper (8.5" x 11"), the vertical pre-set margins add up to 2" which means there is a 9" printable area. Doing the conversions gives us a 32A0 Hex number. (9" x 1440=12,960 dec. or $32A0). Sure enough, there it is at bytes 593F and 5940. In my case I wanted a 2.5" Top Margin and a 1" Bottom Margin. Taking 11' long paper and subtracting 2.5" and 1" leaves a balance of 7.5" printable which is 2430 Hex. (7.5 x 1440 = 10,800 Decimal which is 2430 Hex).

Therefore, by changing the Top Margin and the Printable area the program calculated the bottom margin for me and put it in. You cannot, at least that I know of, change the Bottom Margin directly. You change the Top and the Printable area. The same thing holds true for the Left and Right Margins and the Running Head positions. You can change the Left Margin and the Printable area and the Right Margin will be set for you automatically.

The summary of these changes is:

Byte Nos.*	**Default Setting**	**Description**
593A + 593B	1.00"	Top Margin Setting
593F + 5940	9.00"	Printable area Vertical Dimension
5944 + 5945	1.25"	Left Margin
5949 + 594A	6.00"	Printable area Horizontal Dimension
5954 + 5955	0.75"	Running Head Position - from Top
5959 + 595A	10.25"	Running Head Total Printable area
595E + 595F	0.50"	Column Spacing (multi-column docs)
5963 + 5964	0.75"	Auto Page Numbering Position from Top
5968 + 5969	7.25"	Auto Page Numbering Position from Left

(SEE FIGURE 1 FOR ILLUSTRATIONS OF THE SECTOR AND BYTES TO CHANGE)
*THE ABOVE IS FOR US LETTER PAPER.

As a matter of information only the five standard paper sizes from the ImageWriter's point of view (1/120 of an inch) are as listed. The only one I was immediately concerned with was the US Letter size.

Paper Type and Size	**Height x Width**	**Hex Equiv's**
US Letter	11.00" x 8.50"	0528 x 03FC
US Legal	11.66" x 8.25"	0578 x 03DE
Computer Paper	14.00" x 8.50"	0690 x 03FC
A4 Letter	12.00" x 8.25"	05A0 x 03DE
International Fanfold	11.00" x 14.00"	0528 x 0690

I believe that the printable areas of these other papers is determined by the same logic. The pre-set margins added together subtracted from the overall paper width or height equals the printable area. Of course you have to convert them to Hex numbers to see what needs to be changed. I couldn't find them but since I started out to set up US Letter Paper, I considered the job finished. You may want to do some experimenting on your own.

Peace and Tranquility now reign over my computer once again, even when I do forget to change the margins and start printing. But hmmmmm.....I do wonder what all of those other numbers are and what each of them do.

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