

Rich Text Format (RTF) Specification Version 1.9.1

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Rich Text Format (RTF) Specification

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Introduction

The Rich Text Format (RTF) is a method of encoding formatted text and graphics for use within applications and for transfer between applications. Users often depend on special translation software to move word-processing documents between various applications developed by different companies. RTF serves as both a standard of data transfer between word processing software, document formatting, and a means of migrating content from one operating system to another. RTF allows documents to migrate forward and backward in time: old readers can read the most recent RTF and new readers can read old RTF. The only other widely used rich-text format that has this flexibility is HTML, which is not nearly as rich.

This document specifies the format used by RTF for text and graphics interchange. RTF usually uses ASCII (lower byte range – 7 bits) to represent rich text, with runs of text that include nonASCII characters requiring conversion to appropriate code values. This version of the RTF Specification includes all control words introduced by Microsoft Office Word up through Word 2007. For Microsoft Word for Windows® 95 on, the Index of RTF Control Words in Appendix B reveals the version of Word that added the control words. It also reveals the control words defined in the 1987 Microsoft Systems Journal RTF article. Files created with an earlier version of Word using RTF should be read without problem by newer versions of Word. Older versions of Word ignore control words and groups they don't understand.

Software that can convert rich text to RTF is called an RTF writer. An RTF writer separates the application's control information from the actual text and writes a file containing the text and the RTF command groups associated with that text. Software that reads an RTF file and is capable of interpreting or discarding the formatting commands is called an RTF reader.

A sample RTF parsing reader program is given in <u>Appendix A: Sample RTF Reader Application</u>. This sample RTF reader is designed for use in conjunction with this document to assist those interested in developing their own RTF readers. The sample RTF reader is not a for-sale product, and Microsoft does not provide technical support or any other kind of support for the sample RTF parsing reader code or this document.

Basic Entities

RTF files are usually 7-bit ASCII plain text, consisting of control words, control symbols, and groups. RTF files are easily transmitted between most PC based operating systems because of their 7-bit ASCII characters. However, converters that communicate with Microsoft Word for Windows or Microsoft Word for the Macintosh should expect data transfer as 8-bit characters and binary data (see \binN) can contain any 8-bit values. Unlike most clear text files, an RTF file does not have to contain any carriage return/line feed pairs (CRLFs) and CRLFs should be ignored by RTF readers except that they can act as control word delimiters. RTF files are more readable when CRLFs occur at major group boundaries.

Control Word

An RTF *control word* is a specially formatted command used to mark characters for display on a monitor or characters destined for a printer. A control word's name cannot be longer than 32 letters.

A control word is defined by:

\<ASCII Letter Sequence><Delimiter>

where < Delimiter > marks the end of the control word's name. For example:

\par

A backslash begins each control word and the control word is case sensitive.

The <ASCII Letter Sequence> is made up of ASCII alphabetical characters (a through z and A through Z). Control words (also known as keywords) originally did not contain any uppercase characters, however in recent years uppercase characters appear in some newer control words.

The <Delimiter> can be one of the following:

- A space. This serves only to delimit a control word and is ignored in subsequent processing.
- A numeric digit or an ASCII minus sign (-), which indicates that a numeric parameter is associated with the control word. The subsequent digital sequence is then delimited by any character other than an ASCII digit (commonly another control word that begins with a backslash). The parameter can be a positive or negative decimal number. The range of the values for the number is nominally -32768 through 32767, i.e., a signed 16-bit integer. A small number of control words take values in the range -2,147,483,648 to 2,147,483,647 (32-bit signed integer). These control words include \binN, \revdttmN, \rsidN related control words and some picture properties like \bliptagN. Here N stands for the numeric parameter. An RTF parser must allow for up to 10 digits optionally preceded by a minus sign. If the delimiter is a space, it is discarded, that is, it's not included in subsequent processing.
- Any character other than a letter or a digit. In this case, the delimiting character terminates the control word and is not part of the control word. Such as a backslash "\", which means a new control word or a control symbol follows.

If a single space delimits the control word, the space does not appear in the document (it's ignored). Any characters following the single space delimiter, including any subsequent spaces, will appear as text or spaces in the document. For this reason, you should use spaces only where necessary. It is recommended to avoid spaces as a means of breaking up RTF syntax to make it easier to read. You can use paragraph marks (CR, LF, or CRLF) to break up lines without changing the meaning except in destinations that contain **\binN**.

In this document, a control word that takes a numeric parameter **N** is written with the **N**, as shown here for **\binN**, unless the control word appears with an explicit value. The only exceptions to this are "toggle" control words like **\b** (bold toggle), which have only two states. When such a control word has no parameter or has a nonzero parameter, the control word turns the property on. When such a control word has a parameter of 0, the control word turns the property off. For example, **\b** turns on bold and **\b0** turns off bold. In the definitions of these toggle control words, the control word names are followed by an asterisk.

Units

The parameter N often specifies a dimension. The units used for dimensions in RTF may be points (pts), half pts, twips, Word device-independent units, EMUs, or pixels, depending on the control word. These units are summarized in the table

Units	Conversions
Points (pts)	72/inch
Half points	144/inch
Twips	1440/inch, 20/pt
Device-independent	294912/inch, 4096/pt
EMUs	914400/inch, 36000/mm, 12700/pt, 635/twip
Pixels	typically 96/inch

EMUs (English-Metric Units) are used for some drawing parameter dimensions (see **\shp**) and pixels are used for some bitmap and metafile dimensions. EMUs are accurate for inches, millimeters, points, and twips. The most commonly used units in RTF are twips.

Control Symbol

A *control symbol* consists of a backslash followed by a single, non-alphabetical character. For example, $\backslash \sim$ (backslash tilde) represents a non-breaking space. Control symbols do not have delimiters, i.e., a space following a control symbol is treated as text, not a delimiter.

Group

A group can consist of text, control words, or control symbols enclosed in braces ({ }). The opening brace ({ }) indicates the start of the group and the closing brace ({ }) indicates the end of the group. Each group specifies the text affected by the group and the different attributes of that text. The RTF file can also include groups for fonts, styles, screen color, pictures, footnotes, comments (annotations), headers and footers, summary information, fields, bookmarks, document-, section-, paragraph- and character-formatting properties, mathematics, images, and objects. If the font, file, style, color, revision mark, and summary-information groups and document-formatting properties are included in the file, they must appear in the RTF header, which precedes the RTF body. If the content of any group is not used, the group can be omitted. The groups are discussed in the following sections. Any group that uses the properties defined in another group must appear after the group that defines those properties. For example, color and font properties must precede the style group.

Destinations

Certain control words, referred to as *destinations*, mark the beginning of a collection of related text that could appear at another position, or destination, within the document. Destinations may also include text that is used but does not appear within the document at all. An example of a destination is the **\footnote** group, where the footnote text follows the control word. Page breaks cannot occur in destination text. A destination control word and its associated text must be enclosed in braces.

Destinations added after the <u>1987 RTF Specification</u> may be preceded by the control symbol $\$ (backslash asterisk). This control symbol identifies destinations whose related text should be ignored if the RTF reader does not recognize the destination control word. RTF writers should follow the convention of using this control symbol when adding new destinations or groups. Destinations whose related text should be inserted into the document even if the RTF reader does not recognize the destination should not use $\$ *.

Most formatting specified within a group affects only the text within that group (including nested groups within that group). Generally, text within a group inherits the formatting of the text in the outer group. However, Microsoft implementations of RTF assume that the footnote, annotation, header, and footer groups (described later in this specification) do not inherit the formatting of the outer group. Therefore, to ensure that these groups are formatted correctly, you should set the formatting within these groups to the appropriate default with the \sectd, \pard, and \plain control words, and then add any desired formatting.

The control words, control symbols, and braces constitute control information. All other characters in the file are plain text or data. Here is an example containing plain text that does not exist within an inside group:

```
{\rtf1\ansi\deff0{\fonttbl{\f0\froman Tms Rmn;}{\f1\fdecor Symbol;}{\f2\fswiss Helv;}}
{\colortbl;\red0\green0\blue0;\red0\green0\blue255;\red0\green255\blue255;\red0\green255\blue255;\red255\green255\blue255;}
{\stylesheet{\fs20 \snext0 Normal;}}{\info{\author John Doe}{\creatim\yr1990\mo7\dy30\hr10\min48}}
{\version1}{\edmins0}{\nofpages1}{\nofwords0}{\nofchars0}{\vern8351}}
\widoctrl\ftnbj \sectd\linex0\endhere \pard\plain \fs20 This is plain text.\par}
```

Even though "This is plain text." is not part of an inside group, it is part of the encompassing {\rtf1...} group and hence is part of the body of the RTF file. It is subject to the formatting specified by and after the \pard command. Specifically, the \pard resets any previous paragraph formatting, \plain resets any previous character formatting, and \fs20 sets the font size to 20 half points, i.e., 10 points.

Conventions of an RTF Reader

The reader of an RTF stream is concerned with the following:

- Separating control information from plain text.
- Acting on control information.
- Collecting and properly inserting text into the document, as directed by the current group state.

Acting on control information is designed to be a relatively simple process. Some control information adds special characters to the plain text stream. Other information serves to change the *program state*, which includes properties of the document as a whole, or to change any of a collection of *group states*, which apply to parts of the document.

A group state can specify the following:

- The *destination*, or part of the document that the plain text is constructing.
- Character-formatting properties, such as bold or italic.
- Paragraph-formatting properties, such as justified or centered.
- Section-formatting properties, such as the number of columns.
- Table-formatting properties, which define the number of cells and dimensions of a table row.

In practice, an RTF reader will evaluate each character it reads in sequence as follows:

- If the character is an opening brace ({), the reader stores its current state on the stack. If the character is a closing brace (}), the reader retrieves the current state from the stack.
- If the character is a backslash (\), the reader collects the control word or control symbol and its parameter, if any, and looks up the control word or control symbol in a table that maps control words to actions. It then carries out the action prescribed in the lookup table. (The possible actions are discussed in the following table.) The read pointer is left before or after a control-word delimiter, as appropriate.
- If the character is anything other than an opening brace ({), closing brace (}), backslash (\), or a CRLF (carriage return/line feed), the reader assumes that the character is plain text and writes the character to the current destination using the current formatting properties.

If the RTF reader cannot find a particular control word or control symbol in the lookup table described in the preceding list, the control word or control symbol should be ignored. If the control word or control symbol is preceded by an opening brace ({), it is part of a group. The current state should be saved on the stack, but no state change should occur. When a closing brace ({}) is encountered, the current state should be retrieved from the stack, thereby resetting the current state. If an unknown control word is preceded by '{*', then it starts an ignorable destination group. The RTF reader should discard all text up to and including the closing brace ({}) that closes this group. All RTF readers must recognize all destinations defined in the 1987 RTF Specification. The reader may skip past the whole ignorable destination group, but it is not allowed to discard the leading control word alone. Ignorable destinations defined since the 1987 RTF Specification are marked with the * control symbol, unless they always appear within groups so marked.

Note: All RTF readers must implement the * control symbol so that they can read RTF files written by newer RTF writers.

For control words or control symbols that the RTF reader can find in the lookup table, the possible actions are as follows.

Action	Description	
Change Destination	The RTF reader changes the destination to the destination described in the table entry. Destination changes are legal only immediately after an opening brace ({). (Other restrictions may also apply; for example, footnotes cannot be nested.) Many destination changes imply that the current property settings will be reset to their default settings. Examples of control words that change destination are \footnote, \header, \footer, \pict, \info, \fonttbl, \stylesheet, and \colortbl. This specification identifies all destination control words where they appear in control-word tables.	
Change Formatting Property	The RTF reader changes the property as described in a table entry. If a parameter is required, an N appears at the end of the control word name. Appendix B: Index of RTF Control Words at the end of this Specification also specifies which control words require parameters. If a parameter is needed and not specified, then a default value is used. The default value used depends on the control word. If the control word does not specify a default, then RTF readers should assume a default of 0 except for the toggle control words (like \b), which have a default of 1.	
Insert Special Character	The reader inserts into the document the character code or codes described in the table entry.	
Insert Special Character and Perform Action	The reader inserts into the document the character code or codes described in the table entry. Then the reader performs the action the entry specifies. For example, when Microsoft Word interprets \par, a paragraph mark is inserted in the document and special code is run to record the paragraph properties belonging to that paragraph mark.	

Formal Syntax

RTF uses the following syntax, based on Backus-Naur Form.

Syntax	Meaning
#PCDATA	Text (without control words)
#SDATA	Hexadecimal data
#BDATA	Binary data
'c'	A literal, where c is one or more ASCII characters
A?	Item A is optional
A+	One or more repetitions of item A
A*	Zero or more repetitions of item A
АВ	Item A followed by item B
A B	Item A or item B
A & B	Item A or item B, in any order
<letter></letter>	az AZ
<control name=""></control>	<letter>+</letter>
<digit></digit>	09
<parameter></parameter>	'-'? <digit>+</digit>
<control entity="" word=""></control>	'\' <control name=""><parameter>?</parameter></control>

For the sake of readability, when a <control word entity> appears in a definition, it is displayed in boldface without enclosing apostrophes.

Contents of an RTF File

An RTF file has the following syntax:

```
<File> '{' <header> <document> '}'
```

This syntax is the standard RTF syntax; any RTF reader must be able to interpret RTF written to this syntax correctly. It is worth mentioning again that RTF readers are not required to interpret all control words, but they must be able to harmlessly ignore unknown (or unused) control words, and they must be able to skip over destinations marked with the * control symbol. There may be RTF writers that generate RTF that does not conform to this syntax, and as such, RTF readers should be robust enough to handle some minor variations. Nonetheless, if an RTF writer generates RTF conforming to this specification, then any correct RTF reader should be able to interpret it.

Note: RTF readers can reject input if strongly illegal data is encountered that is most probably created maliciously. For example, if the table cell width control word **\cellxN** is encountered outside of a table, the RTF reader should probably reject the file.

Header

The header has the following syntax:

Each of the various header tables should appear, if they exist, in this order. Document properties can occur before and between the header tables. A property must be defined before being referenced. Specifically,

- The style sheet must occur before any style usage.
- The font table must precede any reference to a font (except those in <deffont>).
- The default font keyword(s) must precede any text not explicitly formatted by a font, because they specify the fonts to use in such cases.

RTF Version

An entire RTF file is considered a group and must be enclosed in braces. The $\$ control word must follow the opening brace. The numeric parameter N identifies the major version of the RTF Specification used. The RTF standard described in this specification, although titled as version 1.9.1, continues to correspond syntactically to RTF Specification version 1. Therefore, the numeric parameter N for the $\$ control word should still be emitted as 1.

Character Set

After specifying the RTF version, you must declare the default character set used in the document unless it is **\ansi** (the default). The control word for the character set must precede any plain text or any table control words. The RTF Specification supports the following document character sets <character set>

```
<character set> (\ansi | \mac | \pc | \pca)? \ansicpgN?
```

where the control words are defined by

Control word	Character set
\ansi	ANSI (the default)
\mac	Apple Macintosh
\pc	IBM PC code page 437
\pca	IBM PC code page 850, used by IBM Personal System/2 (not implemented in version 1 of Microsoft Word for $OS/2$)
\ansicpg <i>N</i>	This keyword represents the default ANSI code page used to perform the Unicode to ANSI conversion when writing RTF text. N represents the code page in decimal. This is typically set to the default ANSI code page of the run-time environment (for example, \ansicpg1252 for U.S. Windows). The reader can use the same ANSI code page to convert ANSI text back to Unicode. If it appears, this keyword should be emitted in the RTF header section right after the \ansi, \mac, \pc or \pca keyword. Possible values include those in the following table.
\fbidis	Flag written by RichEdit to indicate a single font is active instead of a set of associated fonts.

Code page	Name
437	United States IBM
708	Arabic (ASMO 708)
709	Arabic (ASMO 449+, BCON V4)
710	Arabic (transparent Arabic)
711	Arabic (Nafitha Enhanced)
720	Arabic (transparent ASMO)
819	Windows 3.1 (United States and Western Europe)
850	IBM multilingual
852	Eastern European
860	Portuguese
862	Hebrew
863	French Canadian
864	Arabic
865	Norwegian
866	Soviet Union
874	Thai
932	Japanese
936	Simplified Chinese
949	Korean
950	Traditional Chinese
1250	Eastern European
1251	Cyrillic
1252	Western European
1253	Greek
1254	Turkish
1255	Hebrew
1256	Arabic
1257	Baltic
1258	Vietnamese
1361	Johab
10000	MAC Roman
10001	MAC Japan
10004	MAC Arabic
10005	MAC Hebrew
10006	MAC Greek

10007	MAC Cyrillic
10029	MAC Latin2
10081	MAC Turkish
57002	Devanagari
57003	Bengali
57004	Tamil
57005	Telugu
57006	Assamese
57007	Oriya
57008	Kannada
57009	Malayalam
57010	Gujarati
57011	Punjabi

Note that runs of text marked with a particular font index (see \fint in the \fint in the \fint section) use the codepage for that font as given by \fint or implied by \fint unless they use Unicode RTF described in the following section.

Unicode RTF

From Word 97 onward, Word is based on <u>Unicode</u>. Text characters can be handled using the 16-bit Unicode character-encoding scheme defined in this section. Expressing this text in RTF required a new mechanism, because until Word 97, RTF handled only 7-bit characters directly and 8-bit characters encoded as hexadecimal using \'xx. The Unicode mechanism described here can be applied to any RTF destination or body text.

Control word	Meaning
\uc\	This keyword represents the number (count) of bytes that follow a \uN Unicode character to give the codepage code that best corresponds to the Unicode character. This keyword may be used at any time, and values are scoped like character properties. That is, a \ucN keyword applies only to text following the keyword, and within the same (or deeper) nested braces. On exiting the group, the previous \ucN value is restored. The reader must keep a stack of counts seen and use the most recent one to skip the appropriate number of characters when it encounters a \unN keyword. When leaving an RTF group that specified a \ucN value, the reader must revert to the previous value. A default of 1 should be assumed if no \ucN keyword has been seen in the current or outer scopes.
	A common practice is to emit no ANSI representation for Unicode characters within a Unicode destination context (that is, inside a \ud destination). Typically, the destination will contain a \uc0 control sequence. There is no need to reset the count on leaving the \ud destination, because the scoping rules will ensure the previous value is restored.
\uN	This keyword represents a single Unicode character that has no equivalent ANSI representation based on the current ANSI code page. $\it N$ represents the Unicode character value expressed as a decimal number.
	This keyword is followed immediately by equivalent character(s) in ANSI representation. In this way, old readers will ignore the $\u N$ keyword and pick up the ANSI representation properly. When this keyword is encountered, the reader should ignore the next N' characters, where N' corresponds to the last $\u CN'$ value encountered.
	As with all RTF keywords, a keyword-terminating space may be present (before the ANSI characters) that is not counted in the characters to skip. While this is not likely to occur (or recommended), a \binN keyword, its argument, and the binary data that follows are considered one character for skipping purposes. If an RTF scope delimiter character (that is, an opening or closing brace) is encountered while scanning skippable data, the skippable data is considered to end before the delimiter. This makes it possible for a reader to perform some rudimentary error recovery. To include an RTF delimiter in skippable data, it must be represented using RTF entirely

appropriate control symbol (that is, escaped with a backslash,) as in plain text. Any RTF control word or symbol is considered a single character for the purposes of counting skippable

Control word	Meaning
	characters.
	An RTF writer, when it encounters a Unicode character with no corresponding ANSI character, should output \uN followed by the best ANSI representation it can manage. Often a question mark is used if no reasonable ANSI character exists. In addition, if the Unicode character translates into an ANSI character stream with a count of bytes differing from the current Unicode Character Byte Count, it should emit the appropriate \ucN keyword prior to the \uN keyword to notify the reader of the change.
	Most RTF control words accept signed 16-bit numbers as arguments. For these control words, Unicode values greater than 32767 are expressed as negative numbers. For example, the character code U+F020 is given by $\u-4064$. To get -4064 , convert F020 ₁₆ to decimal (61472) and subtract 65536.
	Occasionally Word writes SYMBOL_CHARSET (nonUnicode) characters in the range U+F020U+F0FF instead of U+0020U+00FF. Internally Word uses the values U+F020U+F0FF for these characters so that plain-text searches don't mistakenly match SYMBOL_CHARSET characters when searching for Unicode characters in the range U+0020U+00FF. To find out the correct symbol font to use, e.g., Wingdings, Symbol, etc., find the last SYMBOL_CHARSET font control word \fN used, look up font N in the font table and find the face name. The charset is specified by the \fcharsetN control word and SYMBOL_CHARSET is for N = 2. This corresponds to codepage 42.
\upr	This keyword represents a destination with two embedded destinations, one represented using Unicode and the other using ANSI. This keyword operates in conjunction with the \ud keyword to provide backward compatibility. The general syntax is as follows:
	'{' \upr '{' keyword ansi_text '}{*' \ud '{' keyword Unicode_text '}}}'
	Notice that the \upr keyword destination does not use the \xspace keyword; this forces the old RTF readers to pick up the ANSI representation and discard the Unicode one.
\ud	This destination is represented in Unicode. The text is represented using a mixture of ANSI translation and \uN keywords to represent characters that do not have exact ANSI equivalents.

Document Text

Document text should be emitted as ANSI characters. If there are Unicode characters that do not have corresponding ANSI characters, they should be output using the **\ucN** and **\uN** keywords.

For example, the text "Lab<code>IValue</code>" (Unicode characters 0x004c, 0x0061, 0x0062, 0x0393, 0x0056, 0x0061, 0x006c, 0x0075, 0x0065) should be represented as follows (assuming a previous **\ucl**):

Lab\u915GValue

Destination Text

Destination text is defined as any text represented in an RTF destination. A good example is the bookmark name in the **\bkmkstart** destination.

Any destination containing Unicode characters can be written as a pair of destinations, one within a **\upr** group that ensures old readers can read it properly and the other within a **\ud** group that ensures no Unicode character encoding is lost when read with a new reader.

For example, a bookmark name "Lab Γ Value" (Unicode characters 0x004c, 0x0061, 0x0062, 0x0393, 0x0056, 0x0061, 0x006c, 0x0075, 0x0065) should be represented as follows (assuming an active **\uc1**):

{\upr{*\bkmkstart LabGValue}{*\ud{*\bkmkstart Lab\u915GValue}}}

The first sub destination contains only ANSI characters and is the representation that old readers will see. The second sub destination is a ***\ud** destination that contains a second copy of the **\bkmkstart** destination. This copy can contain Unicode characters and is the representation that Unicode-aware readers must pay attention to, ignoring the ANSI-only version.

Note: this example could also be expressed as (assuming an active \uc1)

{*\bkmkstart Lab\u915GValue}

\fromtext | \fromhtml

Default Fonts and Languages

<from>

<deffont>

Default font settings can be used to tell the program what regional settings are appropriate as defaults. For example, having a Japanese font set in **\stshfdbchN** would tell Word to enable Japanese formatting options. Here **N** refers to an entry in the font table. The syntax for <from>, <deffont> and <deflang> appearing in the RTF Header is

\deffN? \adeffN? (\stshfdbchN \stshflochN \stshfbiN)?

<deflang></deflang>	\deflangN? \deflangfeN? \adeflangN?		
Control word	Meaning		
\fromtext	Indicates document was originally plain text email.		
\fromhtml/V	Indicates document was originally HTML email and may contain encapsulated HTML tags. This keyword may be followed by a version number (currently 1).		
\deff <i>N</i>	Defines default font to be \P in case text is encountered before any \P control word is active.		
\adeffN	Defines default BiDi font to be \P in case BiDi text is encountered before any \P control word is active.		
\stshfdbch/V	Defines default East Asian font for style sheets.		
\stshfloch/V	Defines default ASCII font for style sheets.		
\stshfhich <i>N</i>	Defines default High-ANSI font for style sheets.		
\stshfbi <i>N</i>	Defines default Complex Script (BiDi) font for style sheets.		
\deflang <i>N</i>	Defines default language to be used when the \plain control word is encountered. See the <u>standard language table</u> for a list of possible values for N .		
\deflangfe <i>N</i>	Default language ID for East Asian text in Word.		
\adeflang <i>N</i>	Default language ID for South Asian/Middle Eastern text in Word. The default languages are		

Default font settings can be used to tell the program what regional settings are appropriate as defaults. For example, having a Japanese font set in **\stshfdbchN** would tell Word to enable Japanese formatting options. **N** refers to an entry in the font table.

be changed via Microsoft Office Language Settings applet).

determined by the current primary editing language and the enabled editing languages (can

Theme Data

A document's Theme Data contains a hex-encoded representation of a set of styling that can be applied to objects within a document and which affects the look of the document and the information and objects it contains. For example, in a Word 2007 document, shapes can have a

certain look, text can have certain properties, and headings may be styled, by a single Theme. When a Theme is changed, not only may the font and colors change, but also the effects applied to the shapes and tables within the document.

Theme Data has the following syntax:

```
<themedata> '{\*' \themedata #SDATA '}'
```

The following control word can be used in this destination:

Control word	Meaning
*\themedata	Starts destination containing a hexadecimal representation of the document theme.

Color Scheme Mapping

Color Scheme Mapping enables multiple Theme colors to be chained together. Color Scheme Mapping has the following syntax:

```
<colorschememapping> '{\*' \colorschememapping #SDATA '}'
```

The following control word can be used in this destination:

Control word	Meaning
*\colorschememapping	Starts destination containing a hexadecimal representation of the document Color Scheme Mapping.

For example, the sample RTF representing a hex-encoded color scheme mapping:

{*\colorschememapping

3c3f786d6c2076657273696f6e3d22312e302220656e636f64696e673d225554462d3822207374616e64616c6f6e653d22796 573223f3e0d0a3c613a636c724d

617020786d6c6e733a613d22687474703a2f2f736368656d61732e6f70656e786d6c666f726d6174732e6f72672f647261776

6e22206267313d226c743122207478313d22646b3122206267323d226c743222207478323d22646b322220616363656e74313d22616363656e74312220616363

656e74323d22616363656e74322220616363656e74333d22616363656e74332220616363656e74343d22616363656e7434222
0616363656e74353d22616363656e74352220616363656e74363d22616363656e74362220686c696e6b3d22686c696e6b2220
666f6c486c696e6b3d22666f6c486c696e6b222f3e}

For additional information on color scheme mapping, please reference the Office Open XML specification section on the element "clrSchemeMapping".

Font Table

The **\fonttbl** control word introduces the font table group. Unique **\fN** control words define each font available in the document. These control words refer to that font throughout the document. The font table group has the following syntax.

```
<fonttbl>
                   '{' \fonttbl (<fontinfo> | ('{' <fontinfo> '}'))+ '}'
                   <themefont>? \fN <fontfamily> \fcharsetN? \fprq? <panose>? <nontaggedname>?
<fontinfo>
                   <fontemb>? \cpgN? <fontname> <fontaltname>? ';
<themefont>
                   \flomajor | \fhimajor | \fdbmajor | \fbimajor | \flominor | \fhiminor | \fdbminor |
                   \fnil | \froman | \fswiss | \fmodern | \fscript | \fdecor | \ftech | \fbidi
<fontfamily>
                   '{\*' \panose <data> '}'
<panose>
                   '{\*' \fname #PCDATA ';}'
<nontaggedname>
<fontname>
                   #PCDATA
<fontaltname>
                   '{\*' \falt #PCDATA '}'
<fontemb>
                   '{\*' \fontemb <fonttype> <fontfname>? <data>? '}'
<fonttype>
                   \ftnil | \fttruetype
<fontfname>
                   '{\*' \fontfile \cpgN? #PCDATA '}'
```

Note: For <fontemb>, either <fontfname> or <data> must be present, although both may be present.

Note: When <themefont> is present, related font information such as the font name, PANOSE information is still provided so that theme-unaware applications can read what the given font evaluates to while safely ignoring the theme control words new to Word 2007. Only **\fcharsetN** and **\cpgN** provide any additional information to the entry that is not already contained in <themefont>.

All fonts available to the RTF writer can be included in the font table, even if the document does not use all the fonts.

RTF also supports font families so that applications can attempt to intelligently choose fonts if the exact font is not present on the reading system. RTF uses the following control words to describe the various font families.

Control word	Font family Examples	
\fnil	Unknown or default fonts (the default)	Not applicable
\froman	Roman, proportionally spaced serif fonts	Times New Roman, Palatino
\fswiss	Swiss, proportionally spaced sans serif fonts	Arial
\fmodern	Fixed-pitch serif and sans serif fonts	Courier New, Pica
\fscript	Script fonts	Cursive
\fdecor	Decorative fonts	Old English, ITC Zapf Chancery
\ftech	Non Unicode, technical and symbol fonts	Symbol, Wingdings
\fbidi	Arabic, Hebrew, or other bidirectional font	Miriam

If an RTF file uses a default font, the default font number is specified with the \def{N} control word, which must precede the font-table group. The RTF writer supplies the default font number used in the creation of the document as the numeric argument N. The RTF reader then translates this number through the font table into the most similar font available from the reader's operating system.

The following control words specify the font character set, alternative font name, pitch of a font in the font table, and non-tagged font name.

Control word	Meaning
\falt	Indicates alternate font name to use if the font specified in the font table is not available. '{*'
	\falt <alternate font="" name="">'}'</alternate>

\fprqN	Meaning Specifies th	ao nitch of a f	fant in the fant table
(ipiq/v			font in the font table.
	Pitch		N
		ılt pitch	0
	Fixed	pitch	1
	Varia	ble pitch	2
*\panose			his destination contains a 10 -byte Panose 1 number. Each byte represents described by the Panose 1 standard specification.
*\fname	Optional font-table control word that defines the nontagged font name, that is, the name without the tag that identifies the character set being used. For example, Arial is a nontagged font name, and Arial (Cyrillic) is a tagged font name. This control word is used by WordPad. Word ignores this control word (and never creates it).		
\fbias <i>N</i>	Used to arbitrate between two fonts when a particular character can exist in either a non-East Asian or an East Asian font. Word 97 through Word 2007 emit the \fbiasN keyword only in the context of bullets or list information (that is, a \listlevel destination). The default value of 0 for N indicates a non-East Asian font. A value of 1 indicates an East Asian font. Additional values may be defined in future releases.		ont. Word 97 through Word 2007 emit the \fbiasN keyword only in the information (that is, a \listlevel destination). The default value of 0 for Asian font. A value of 1 indicates an East Asian font. Additional values
\fcharset <i>N</i>	tagged wit N. Use this MultiByteTo codepage of file wingdi.	h the associate codepage to oWideChar(). given by \fch h (e.g., see A	set of a font in the font table. If this appears, it implies that bytes in runs ted \f\mathbf{f}\mathbf{N}\ are character codes in the codepage corresponding to the charset convert the codes to Unicode using a function like the Windows See also the \cpg\mathbf{N}\ control word, which, if it appears, supersedes the tarset\mathbf{N}\. Values for \mathbf{N}\ are defined, for example, in the Windows header \text{NSI_CHARSET}\) and are repeated here together with the corresponding ges for convenience:
	charset	codepage	Windows/Mac name
	0	1252	ANSI
	1	0	Default
	2	42	Symbol
	77	10000	Mac Roman
	78	10001	Mac Shift Jis
	79	10003	Mac Hangul
	80	10008	Mac GB2312
	81	10002	Mac Big5
	82		Mac Johab (old)
	83	10005	Mac Hebrew
	84	10004	Mac Arabic
	85	10006	Mac Greek
	86	10081	Mac Turkish
	87	10021	Mac Thai
	88	10029	Mac East Europe
	89	10007	Mac Russian
	128	932	Shift JIS
	129	949	Hangul
	130	1361	Johab
	134	936	GB2312

136

161 162

163

Big5

Greek

Turkish

Vietnamese

950

1253

1254

1258

Control word	Meaning		
	177	1255	Hebrew
	178	1256	Arabic
	179		Arabic Traditional (old)
	180		Arabic user (old)
	181		Hebrew user (old)
	186	1257	Baltic
	204	1251	Russian
	222	874	Thai
	238	1250	Eastern European
	254	437	PC 437
	255	850	OEM

Font Embedding

RTF supports embedded fonts with the **\fontemb** group located inside a font definition. An embedded font can be specified by a file name, or the actual font data may be located inside the group. If a file name is specified, it is contained in the **\fontfile** group. The **\cpgN** control word can be used to specify the character set for the file name.

RTF supports TrueType® and other embedded fonts. The type of the embedded font is described by the following control words.

Control word	Embedded font type		
\ftnil	Unknown or default font type (the default)		
\fttruetype	TrueType font		

Code Page Support

A font may have a different character set from the character set of the document. For example, the Symbol font has the same characters in the same code positions both on the Macintosh and in Windows. Typically, RTF fonts use the code page corresponding to the \fcharsetN control word in their \fonttbl description. If the charset doesn't exist, the codepage may be given by the \cpgN control word, for which the code page is N. If the \cpgN does appear, it supersedes the code page corresponding to the \fcharsetN. For such cases, codepage conversions can be avoided altogether by using the Unicode \uN notation for characters. In addition, file names (used in field instructions and in embedded fonts) may not necessarily be the same as the character set of the document; the \cpgN control word can change the character set for these file names as well. However, all RTF documents must still declare a character set (that is, \ansi, \mac, \pc, or \pca) to maintain backward compatibility with earlier RTF readers.

The valid values for \cpgN are given in the \ansicpgN table.

Theme Font Information

The following control words may be emitted along with a particular font entry in the RTF font table and specify the entry's relation to the document's theme.

Note: When one of these control words is present, related font information such as the font name, PANOSE information is still provided so that theme-unaware applications can read what the given font evaluates to while safely ignoring the theme control words new to Microsoft Office Word 2007.

Control word	Meaning
\flomajor	Specifies font entry uses ASCII variation of the "Headings" theme font.
\fhimajor	Specifies font entry uses default (non East Asian, non-ASCII) variation of "Headings" theme font.
\fdbmajor	Specifies font entry uses East Asian variation of the "Headings" theme font.
\fbimajor	Specifies font entry uses complex scripts variation of the "Headings" theme font.
\flominor	Specifies font entry uses ASCII variation of the "Body" theme font.
\fhiminor	Specifies font entry uses default (non East Asian, non-ASCII) variation of the "Body" theme font.
\fdbminor	Specifies font entry uses East Asian variation of the "Body" theme font.
\fbiminor	Specifies font entry uses complex scripts variation of the "Body" theme font.

File Table

The **\filetbl** control word introduces the file table destination. The only time a file table is created in RTF is when the document contains subdocuments. The file table group defines the files referenced in the document and has the following syntax:

<filetbl></filetbl>	'{*' \filetbl ('{' <fileinfo> '}')+ '}'</fileinfo>
<fileinfo></fileinfo>	\file \fidN \frelativeN? \fosnumN? <filesource>+ <file name=""></file></filesource>
<filesource></filesource>	\fvalidmac \fvaliddos \fvalidntfs \fvalidhpfs \fnetwork \fnonfilesys
<file name=""></file>	#PCDATA

Note: The file name can be any valid alphanumeric string for the named file system, indicating the complete path and file name.

Control word	Meaning
\filetbl	A list of documents referenced by the current document. The file table has a structure analogous to the style or font table. This is a destination control word that is output as part of the document header.
\file	Marks the beginning of a file group, which lists relevant information about the referenced file. This is a destination control word.
\fid <i>N</i>	File ID number. Files are referenced later in the document using this number.
\frelativeN	The character position within the path (starting at 0) where the referenced file's path starts to be relative to the path of the owning document. For example, if a document is saved to the path C:\Private\Resume\File1.doc and its file table contains the path C:\Private\Resume\Edu\File2.doc, then that entry in the file table will be \frelative18, to point at the character "E" in "Edu". This allows preservation of relative paths.
\fosnum/V	Currently only filled in for paths from the Macintosh file system. It is an operating system—specific number for identifying the file, which may be used to speed up access to the file or find the file if it was moved to another folder or disk. The Macintosh operating system name for this number is the "file id." Additional meanings of the \fosnum\ control word may be defined for other file systems in the future.
\fvalidmac	Macintosh file system.
\fvaliddos	MS-DOS file system.
\fvalidntfs	NTFS file system.
\fvalidhpfs	HPFS file system.
\fnetwork	Network file system. This control word may be used in conjunction with any of the previous file source control words.
\fnonfilesys	Indicates http/odma.

Color Table

The **\colortbl** control word introduces the color table group, which defines screen colors, character colors, and other color information. The color table group has the following syntax:

Note: When <themecolor> is used, the red/green/blue values are still provided so that theme-unaware applications can read what the given color evaluates to while safely ignoring the theme control words introduced by Word 2007.

For example, consider the following sample RTF code of a color table group:

{\colortbl;\red0\green0\blue0;\red0\green255\blue055;\red0\green255\blue0;5;\red0\green255\blue0;\red255\green255\blue0;\red255\green255\blue0;\red255\green255\blue055;\red0\green255\blue0;\red255\green255\blue055;\red0\green128\blue128;\red0\green128\blue0;\red128\green0\blue128;\red128\green128\blue0;\red128\green128\blue128;\red192\green192\blue192;\red128\green128\blue128;\red192\green192\blue192;\red128\green192\blue192;\red128\green192\blue192;\red193\green193\blue194\green193\blue196;}

The following are valid control words for this group. For the <themecolor> control words, a \ctintN and \cshadeN can be specified if the color entry describes a tint or a shade of the theme color.

Control word	Meaning		
\colortbl	Destination for color table definitions		
\red <i>N</i>	Red intensity, such that $0 \le N \le 255$, i.e., 8 bits per RGB color component		
\greenN	Green intensity, such that $0 \le N \le 255$.		
\blue/V	Blue intensity, such that $0 \le N \le 255$.		
\ctint/V	Specifies the tint of the given theme when specifying a theme color. If the entry references a theme color, \ctintN specifies its shade. If not, \ctintN is ignored.		
	Here $0 \le N \le 255$, where 255 means no tint, and 0 means full tint (resulting in white color). If this control word is not specified, a value of 255 is implied.		
	Note: If the parameter of this control word is less than 255, the parameter of the \cshade control word must be equal to 255. A tint or a shade may be specified, but not both.		
\cshadeN	Specifies the shade of the given theme when specifying a theme color. If the entry references a theme color, \cshadeN specifies its shade. If not, \cshadeN is ignored.		
	Here $0 \le N \le 255$, where 255 means no shade, and 0 means full shade (resulting in black color). If this control word is not specified, a value of 255 is implied.		
	Note: If the parameter of this control word is less than 255, the parameter of the \ctintN control word must be equal to 255. A tint or a shade may be specified, but not both.		
\cmaindarkone	Color entry references "Main Dark 1" theme color.		
\cmainlightone	Color entry references "Main Light 1" theme color.		
\cmaindarktwo	Color entry references "Main Dark 2" theme color		
\cmainlighttwo	Color entry references "Main Light 2" theme color.		
\caccentone	Color entry references "Accent 1" theme color.		
\caccenttwo	Color entry references "Accent 2" theme color		

Control word	Meaning
\caccentthree	Color entry references "Accent 3" theme color.
\caccentfour	Color entry references "Accent 4" theme color.
\caccentfive	Color entry references "Accent 5" theme color.
\caccentsix	Color entry references "Accent 6" theme color
\chyperlink	Color entry references "Hyperlink" theme color
\cfollowedhyperlink	Color entry references "Followed Hyperlink" theme color.
\cbackgroundone	Color entry references "Background 1" theme color.
\ctextone	Color entry references "Text 1" theme color.
\cbackgroundtwo	Color entry references "Background 2" theme color.
\ctexttwo	Color entry references "Text 2" theme color.

Each definition must be delimited by a semicolon, even if the definition is omitted. If a color definition is omitted, the RTF reader uses its default color. The following example defines the default color table used by Word. The first color is omitted, as shown by the semicolon following the **\colortbl** control word. The missing definition indicates that color 0 is the "auto" color.

```
{\colortbl;\red0\green0\blue0;\red0\green0\blue255;\red0\green255\blue255;\red0\green255\blue0;
\red255\green0\blue255;\red255\green0\blue0;\red255\green255\blue0;\red255\green255\blue255;
\red0\green0\blue128;\red0\green128\blue128;\red0\green128\blue0;\red128\green0\blue128;
\red128\green0\blue128;\red128\green128\blue0;\red128\green128\blue128;\red192\green192\blue192;}
```

The foreground and background colors use indexes into the color table to define a color. The following example defines a block of text in color (where supported). Note that the \cfN or \cbN index (color foreground or color background) is the index of an entry in the color table, which represents a red/green/blue (RGB) color combination.

```
{\f1\cb1\cf2 This is colored text. The background is color 1 and the foreground is color 2.}
```

If the file is read by software that does not display color, the reader should ignore the color table group.

Note: Windows versions of Word have never supported \cbN, but it can be emulated by the control word sequence \chshdng0\chcbpatN.

Default Properties

The following control words correspond to the default properties for the given RTF document.

Control word	Meaning
*\defchp	Specifies default character level properties (see <u>Font (Character) Formatting Properties</u>).
*\defpap	Specifies default paragraph level properties (see Paragraph Formatting Properties).

For example, the following RTF fragment specifyies the default paragraph level properties for a given RTF file:

{*\defpap\ql\li0\ri0\widctlpar\wrapdefault\aspalpha\aspnum\faauto\adjustright\rin0\lin0\itap0}

Style Sheet

The **\stylesheet** control word introduces the style sheet group, which contains definitions and descriptions of the various styles used in the document. All styles in the document's style sheet can be included, even if not all the styles are used. In RTF, a style is a form of shorthand used to specify a set of character, paragraph, or section formatting.

The style sheet group has the following syntax:

```
<stylesheet>
                  '{' \stylesheet <style>+ '}'
<style>
                   '{' <styledef>? <keycode>? <formatting> \additive? \sbasedonN? \snextN? \sautoupd?
                   \slinkN? \sqformat? \spriorityN? \sunhideusedN? \slocked? \shidden? \ssemihiddenN?
                   \spersonal? \scompose? \sreply? \styrsidN? <stylename>?';}
                   \sN | \*\csN | \*\dsN | \*\tsN \tsrowd
<styledef>
                   '{' \keycode <keys> '}'
<keycode>
<keys>
                  (\shift? & \ctrl? & \alt?) <key>
<key>
                   \fnN | #PCDATA
<formatting>
                  (<brdrdef> | <parfmt> | <apoctl> | <tabdef> | <shading> | <chrfmt>)+
<stylename>
                   #PCDATA
```

For <style>, both <styledef> and <stylename> are optional; the default is paragraph style 0. Note for <stylename> Microsoft Word for the Macintosh interprets commas in #PCDATA as separating style synonyms. In addition, for <key>, the data must be exactly one character.

Control word	Meaning
\s/V	Designates paragraph style with the style handle \emph{N} , which can be any 16-bit integer.
*\cs <i>N</i>	Designates character style with a style handle N . Like \sN, \csN is not a destination control word. However, it is important to treat it like one inside the style sheet; that is, \csN must be prefixed with * and must appear as the first item inside a group. Doing so ensures that readers that do not understand character styles will skip the character style information correctly. When used in body text to indicate that a character style was applied, do not include the * prefix.
*\ds <i>N</i>	Designates section style with style handle N.
*\tsN	Designates table style, in the same style as $\c N$ for placement and prefixes.
\tsrowd	Like \trowd but for table style definitions.
\additive	Used in a character style definition ('{*' \csN'}'). Indicates that character style attributes are to be added to the current paragraph style attributes, rather than setting the paragraph attributes to only those defined in the character style definition.
\sbasedonN	Defines the style handle of the style the current style is based on (default is 222—no style).
\snext/V	Defines the style to be used in the next paragraph after the paragraph marked by this style. If it is omitted, the next style is the current style.
\sautoupd	Automatically update styles.
\shidden	Style does not appear in the Styles drop-down list in the Style dialog box ¹ (on the Format menu, click Styles).
\slink <i>N</i>	The style is linked to the style whose style sheet index is denoted by N . A paragraph style is linked to a character style when they share the same font properties and the character style is updated when the paragraph style changes. Normally Word will suppress the display of the linked character style in most style lists.
\slocked	The style is locked. It cannot be used in the current document if protection is on.
\spersonal	Style is a personal e-mail style.

¹ The hidden style property can only be accessed using Microsoft® Visual Basic® for Applications.

Control word	Meaning
\scompose	Style is the e-mail compose style.
\sreply	Style is the e-mail reply style.
\styrsid <i>N</i>	Tied to the rsid table, $\it N$ is the rsid of the author who implemented the style.
\ssemihidden/V	${\it N}$ nonzero or ${\it N}$ missing: style does not appear in drop-down menus. If control word is missing or ${\it N}$ = 0, style may appear in drop-down menus.
\keycode	This group is specified within the description of a style in the style sheet in the RTF header. The syntax for this group is '{*' \keycode < keys> '}' where < keys> are the characters used in the key code. For example, a style, Normal, may be defined {\s0 {*\keycode \shift\ctrl n}Normal;} within the RTF style sheet. See the Special Character control words for the characters outside the alphanumeric range that may be used.
\alt	The ALT modifier key. Used to describe shortcut key codes for styles.
\shift	The SHIFT modifier key. Used to describe shortcut key codes for styles.
\ctrl	The CTRL modifier key. Used to describe shortcut key codes for styles.
\fn <i>N</i>	Specifies a function key where ${\it N}$ is the function key number. Used to describe shortcut-key codes for styles.
\sqformat	This control word specifies whether this style shall be treated as a primary style when this document is loaded by an application. If this control word is present, then this style has been designated as being particularly important for the current document, and this information may be used by an application in any means desired.
	Note: This setting does not imply any behavior for the style, only that the style is of particular significance for this document.
	If this element is omitted, then the style shall not be considered a primary style for this document.
\spriority <i>N</i>	This control word specifies a number that may be used to sort the set of style definitions in a user interface when this document is loaded by an application and the recommended setting is specified in the \stylesortmethodN control word.
	If $N = 1$, then this priority shall be used to sort all available styles in ascending value order.
	If this control word is omitted, then the style shall not have an associated priority value and shall be sorted to the end of the list of style definitions (equivalent to a priority value of infinity) when the recommended sort order setting is specified.
\sunhideused <i>N</i>	This control word specifies whether this style shall be hidden from the main user interface until it is used.
	If $N = 1$, then this style may be used to format content (that is any content which references this style shall have its properties as normal), but the style shall be hidden from the main user interface associated with that application.
	Note: The interpretation of a "main" user interface shall not be dictated by this spec, and may be defined by an application as appropriate. This setting is intended to define a style property that allows styles to be seen and modified in an advanced user interface, without exposing the style in a less advanced setting. For example, the style that is used to format the contents of a comment should typically not be shown in a simple user interface, as it is uncommon to want to modify it.
	If this control word is omitted or $\mathbf{N} = 0$, then the style shall not be required to be hidden from the main user interface.

The following is an example of an RTF style sheet:

 ${\tt \{\stylesheet\{\ql \li0\ri0\widctlpar\aspalpha\aspnum\faauto\adjustright\rin0\lin0\ridp0\linp0\ridp$

\fs24\lang1033\langfe1033\cgrid\langnp1033\langfenp1033 \snext0 Normal;}

 $\label{lem:cs10} $$ \additive Default Paragraph Font; $$ (*\cs15 \additive \b\ul\cf6 \sbasedon10 UNDERLINE;) $$$

 ${\true{108}\tr$

 $\trpaddft3\trpaddfr3\tscellwidthfts0\tsvertalt\tsbrdrt\tsbrdrt\tsbrdrr\tsbrdrr\tsbrdrdgl\tsbrdrdgr\tsbrdrr\tsbrdrrv\tght\tsbrdrr\tsbrdrdgl\tsbrdrdgr\tsbrdrr\tsbrdrrv\tsbrdrr\tsbrdrdgl\tsbrdrdgr\tsbrdr\tsbrdr\tsbrdr\tsbrdr\tsbrdr\tsbrdr\tsbrdr\tsbrdr\tsbrdr\tsbrdr\tsbrdr\tsbrdr\tsbrdr\tsbrdr\tsbrdr\tsbrd$

 $$ \s 0^1024\ngfe1024\cgrid\ngnp1024 \ngfenp1024 \snext11 \semihidden Normal Table; $$ {\s 16\qc \li0\ri0\widctlpar\aspalpha\aspnum\faauto\adjustright\rin0\lin0\itap0 $$ \b\fs24\cf2\ng1033\ngfe1033\cgrid\ngnp1033\ngfenp1033 \sbasedon0 \snext16 \sautoupd CENTER; $$} $$$

An example of the usage of these styles in an RTF paragraph:

\pard\plain \ql \li0\ri0\widctlpar\aspalpha\aspnum\faauto\outlinelevel0\adjustright\rin0\lin0\itap0
\fs24\lang1033\langfe1033\cgrid\langnp1033\langfenp1033 {This is the Normal Style
\par }\pard \ql \li0\ri0\widctlpar\aspalpha\aspnum\faauto\adjustright\rin0\lin0\itap0 {\par
}\pard\plain \s16\qc \li0\ri0\widctlpar\aspalpha\aspnum\faauto\outlinelevel0\adjustright
\rin0\lin0\itap0 \b\fs24\cf2\lang1033\langfe1033\cgrid\langnp1033\langfenp1033
{This is a centered paragraph with blue, bold font. I call the style CENTER.\par }
\pard\plain \ql \li0\ri0\widctlpar\aspalpha\aspnum\faauto\adjustright\rin0\lin0\itap0
\fs24\lang1033\langfe1033\cgrid\langnp1033\langfenp1033 {\par The word \'93}{\cs15\b\ul\cf6}

style}{\''94 is red and underlined. I used a style I called UNDERLINE.\par }

Some of the control words used in this example are discussed in later sections. Note that the properties of the style were emitted following the application of the style. This was done for two reasons: (1) to allow RTF readers that do not support styles to continue to display formatting correctly; and (2) to reveal the additive model for styles, where additional property changes are "added" on top of the defined style. Some RTF readers may not "apply" a style when only the style number is used, unless the accompanying formatting information is provided as well.

Quick Styles

Quick Styles are a set of styles that should be readily available for a user via the hosting application's user interface. The **\noqfpromote** control word specifies that a hosting application should not automatically display the following styles as Quick Styles.

Book Title	Caption	Emphasis	Heading1
Heading2	Heading3	Heading4	Heading5
Heading6	Heading7	Heading8	Heading9
Intense Emphasis	Intense Quote	Intense Reference	List Paragraph
No Spacing	Normal	Quote	Strong
Subtitle	Subtle Emphasis	Subtle Reference	Table of Contents Heading
Title			

Note: This control word is usually used in conjunction with **\sqformat** to customize the list of Quick Styles displayed by a hosting application when it loads an RTF file.

Table Styles

Word 2002 introduced table styles. Table styles are like other styles in that they contain properties to be shared by many tables. Unlike the other styles though, table styles allow for conditional formatting, such as specifically coloring the first row.

To address the issue of older readers opening newer RTF files, raw properties were implemented. Older readers can still see the regular properties and edit them, but newer

readers should be able to read the RTF back in and not lose any style functionality. This leaves two types of properties: those applied by older writers that are readable by older readers, and those the user applied directly to override aspects of the style. The user-applied changes are referred to as "raw" and have a higher priority than their non-raw counterparts have.

The following table describes keywords available for style definitions. Any older table formatting properties may be used as well.

Currently emitted but has no effect.	
Top padding value.	
Top vertical alignment of cell Center vertical alignment of cell	
Bottom vertical alignment of cell	
No cell wrapping	
Foreground cell shading color	
Background cell shading color	
Cell shading percentage – N is the shading of a table cell in hundredths of a percent	
Cell shading pattern – backward diagonal (////)	
Cell shading pattern – forward diagonal (\\\\)	
Cell shading pattern – dark backward diagonal (////)	
Cell shading pattern – dark forward diagonal (\\\\)	
Cell shading pattern – cross	
Cell shading pattern – diagonal cross	
Cell shading pattern – dark cross	
Cell shading pattern – dark diagonal cross	
Cell shading pattern – horizontal	
Cell shading pattern – vertical	
•	

Control word	Meaning
\tsbgdkvert	Cell shading pattern – dark vertical
\tsbrdrt	Top border for cell
\tsbrdrb	Bottom border for cell
\tsbrdrl	Left border for cell
\tsbrdrr	Right border for cell
\tsbrdrh	Horizontal (inside) border for cell
\tsbrdrv	Vertical (inside) border for cell
\tsbrdrdgl	Diagonal (upper left to lower right) border for cell
\tsbrdrdgr	Diagonal (lower left to upper right) border for cell
\tscbandsh <i>N</i>	Count of rows in a row band
\tscbandsvN	Count of cells in a cell band

Style and Formatting Restrictions

The style restrictions group has the following syntax:

<stylerestrictions></stylerestrictions>	'{*' \latentstyles \lsdstimaxN \lsdlockeddefN \lsdsemihiddendefN \lsdunhideuseddefN \lsdqformatdefN \lsdprioritydefN <exceptions>? '}'</exceptions>
<exceptions></exceptions>	'{' \lsdlockedexcept <stylenames>+ '}'</stylenames>
<stylenames></stylenames>	<stylename> ';'</stylename>
<stylename></stylename>	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:

where the control words are defined by

Control word	Meaning		
\latentstyles	Indicates that there are style and formatting usage restrictions in the document.		
\lsdstimax <i>N</i>	Indicates how many styles will get the default value specified by \lsdlockeddefN. The number will be the same for all files emitted by a given Word version.		
\lsdlockeddef <i>N</i>	Indicates that no direct formatting can be applied to the document and styles are allowed or disallowed according to N :		
	O Assume all styles are allowed except for those specified by \lsdlockedexcept.		
	1 Assume all styles are disallowed except those specified by \lsdlockedexcept.		
	Note that the \autofmtoverride document property can allow AutoFormat to apply direct formatting.		
\lsdlockedexcept	Exceptions to the lockdown mode specified by \lsdlockeddefN. It is followed by a semicolon-separated list of allowed styles (by name) that are not covered by the protection.		
\lsdsemihiddendef <i>N</i>	Specifies the default setting for the \ssemihiddenN control word that shall be applied to any style made available by the hosting application that is not explicitly defined in the current document. This setting shall be overridden for every style for which a latent style exception exists (\lsdsemihiddenN).		
	If this element is omitted, the default \ssemihiddenN state for all latent styles in the current document shall be "0".		

Control word	Meaning
\lsdunhideuseddef <i>N</i>	Specifies the default setting for the \sunhideusedN control word that shall be applied to any style made available by the hosting application that is not explicitly defined in the current document. This setting shall be overridden for every style for which a latent style exception exists (\lsdunhideusedN)
	If this element is omitted, the default $\sl \sl \sl \sl \sl \sl \sl \sl \sl \sl $
\lsdqformatdef <i>N</i>	Specifies the default setting for the \sqformat control word that shall be applied to any style made available by the hosting application that is not explicitly defined in the current document. This setting shall be overridden for every style for which a latent style exception exists (\lsdqformatN).
	If this element is omitted, the default \sqformat state for all latent styles in the current document shall be "0".
\lsdprioritydef <i>N</i>	Specifies the default setting for the \spriorityN control word that shall be applied to any style made available by the hosting application that is not explicitly defined in the current document. This setting shall be overridden for every style for which a latent style exception exists. (\lsdpriorityN)
	If this element is omitted, the default \spriorityN state for all latent styles in the current document shall be "99".
\lsdpriorityN	Specifies the default setting for the \spriorityN control word that shall be applied to the latent style with the matching style name value.
	If this element is omitted, the default \spriorityN state for this latent style shall be determined the \sprioritydefN control word.
\lsdunhideused <i>N</i>	Specifies the default setting for the $$ control word that shall be applied to the latent style with the matching style name value.
	If this element is omitted, the default \sunhideusedN state for this latent style shall be determined by the \lsdunhideuseddefN control word.
\lsdsemihidden <i>N</i>	Specifies the default setting for the $\space{1mm}$ control word that shall be applied to the latent style with the matching style name value.
	If this element is omitted, the default \ssemihiddenN state for this latent style shall be determined by the \lsdsemihiddendefN control word.
\lsdqformat <i>N</i>	Specifies the default setting for the $\$ control word that shall be applied to the latent style with the matching style name value.
	If this control word is omitted, the default \sqformat state for this latent style shall be determined by the \sqformatdefN control word.
\lsdlocked <i>N</i>	Specifies the default setting for the \slocked control word that shall be applied to the latent style with the matching style name value.
	If this element is omitted, the default $\$ state for this latent style shall be determined by the $\$ control word

The following is an example illustrating the style restrictions that disallow all styles except Normal, Heading 1, heading 2, heading 3, Default Paragraph Font, HTML Top of Form, HTML Bottom of Form, Normal Table, and No List:

{*\latentstyles\lsdstimax156\lsdlockeddef1{\lsdlockedexcept Normal;heading 1;heading 2;heading
3;Default Paragraph Font;HTML Top of Form;HTML Bottom of Form;Normal Table;No List;}}

Note: \annotprot is emitted when locking styles for backward compatibility purposes, but it is ignored by Word 2003 and Word 2007 when reading in documents with style protection.

List Tables

Word 97, Word 2000, Word 2002, Word 2003, and Word 2007 store bullets and numbering information very differently from earlier versions of Word. In Word 6.0, for example, number-formatting data is stored individually with each paragraph. In Word 97 and later versions, however, all of the formatting information is stored in a pair of document-wide list tables that act as a style sheet, and each individual paragraph stores only an index to one of the tables, like a style index.

There are two list tables in Word: the List table (destination \listtable), and the List Override table (destination \listoverridetable).

List Table

The first table Word stores is the List table. A List table is a list of lists (destination \list). Each list contains a number of list properties that pertain to the entire list, and a list of levels (destination \listlevel), each of which contains properties that pertain only to that level. The \listpicture destination contains all the picture bullets used in the document, with a \shppict headed list of \pict entries. These are referenced within the list by the \levelpictureN keyword, with N referring to an element in the list, starting at 0.

The syntax for the List table is as follows:

sttable>	'{*' \listtable <\istpicture>? <\ist>+ '}'
stpicture>	'{*' \listpicture <shppictlist> '}'</shppictlist>
	\list \listemplateid & (\listsimple \listhybrid)? & < \listlevel> + & \listrestarthdn & \listidN & (\listname #PCDATA ';') \liststyleidN? \liststylename?
stlevel>	'{' \listlevel <number> <justification> & \levelfollowN & \levelstartatN & \lvltentative? (\leveloldN & \levelprevN? & \levelprevspaceN? & \levelspaceN? & \levelindentN?)? & <leveltext> & <levelnumbers> & \levellegalN? & \levelnorestartN? & <chrfmt>? & \levelpictureN & \linN? & \fin? & (\jclisttab \txN)? & \linN? '}'</chrfmt></levelnumbers></leveltext></justification></number>
<number></number>	\levelnfcN \levelnfcnN (\levelnfcN & \levelnfcnN)
<justification></justification>	\leveljcN \leveljcnN (\leveljcN & \leveljcnN)
<leveltext></leveltext>	'{' \leveltext \leveltemplateid? #SDATA ';}'
<levelnumbers></levelnumbers>	'{' \levelnumbers #SDATA ';}'

Top-Level List Properties

Control word	Meaning
\listid/V	Each list must have a unique list ID that should be randomly generated. $\it N$ is a long integer. The list ID cannot be between -1 and -5 .
\listtemplateid/V	Each list should have a unique template ID as well, which also should be randomly generated. The template ID -1 means the template ID is undefined. N is a long integer.
\listsimple/V	1 if the list has one level; 0 (default) if the list has nine levels.
\listhybrid	Present if the list has 9 levels, each of which is the equivalent of a simple list. Only one of \listsimpleN and \listhybrid should be present. Word 2000 and newer versions will write lists with the \listhybrid property.
\listrestarthdn <i>N</i>	1 if the list restarts at each section; 0 if not. Used for Word 95 compatibility only.
\listname	The argument for \listname is a string that is the name of this list. Names allow ListNum fields to specify the list to which they belong. This is a destination control word.

Control word	Meaning
\liststyleid <i>N</i>	This identifies the style of this list from the list style definition that has this ID as its \listidN . There can be more than one list style reference to a list style definition. This keyword follows the same numbering convention as \listidN .
	\liststyleidN and \liststylename are exclusive; either zero or one of each can exist per \list definition, but never both.
\liststylename	Identifies this list as a list style definition. This creates a new list style with the given name and the properties of the current list.
	\liststyleidN and \liststylename are exclusive; either zero or one of each can exist per \list definition, but never both.

While Word 97 emitted simple or multilevel (not simple) lists, Word 2000, Word 2002, Word 2003, and Word 2007 emit hybrid lists, which are essentially collections of simple lists. The main difference between Word 2000, Word 2002, Word 2003, and Word 2007 hybrid lists and Word 97 multilevel lists is that each level of a hybrid list has a unique identifier.

List Levels

Each list consists of either one or nine list levels depending upon whether the **\listsimple** flag is set. Each list level contains a number of properties that specify the formatting for that level, such as the start-at value, the text string surrounding the number, its justification and indents.

Control word	Meanir	Meaning		
\levelstartat <i>N</i>	N specifies the start-at value for the level.			
\lvltentative	Specifies that a given numbering level was been saved by a producer but was not used in the parent document. This means that this numbering level may be redefined by a future consumer without changing the actual content of the document.			
	level in level(s)	control word is present, the RTF for a given document will contain the numbering formation associated with this numbering level, but the 'tentative' numbering shall not be represented in any of the hosting application's user interface pertaining bering levels.		
\levelnfc <i>N</i>	Specifie	es the number type for the level		
	0	Arabic (1, 2, 3)		
	1	Uppercase Roman numeral (I, II, III)		
	2	Lowercase Roman numeral (i, ii, iii)		
	3	Uppercase letter (A, B, C)		
	4	Lowercase letter (a, b, c)		
	5	Ordinal number (1 st , 2 nd , 3 rd)		
	6	Cardinal text number (One, Two Three)		
	7	Ordinal text number (First, Second, Third)		
	10	Kanji numbering without the digit character (DBNUM1)		
	11	Kanji numbering with the digit character (DBNUM2)		
	12	46 phonetic katakana characters in "aiueo" order (AIUEO) (newer form – "あいうえ お。。。" based on phonem matrix)		
	13	46 phonetic katakana characters in "iroha" order (IROHA) (old form - "いろはにほへとちりぬるお。。。" based on haiku from long ago)		
	14	Double-byte character		
	15	Single-byte character		
	16	Kanji numbering 3 (DBNUM3)		

Control word	Mear	ning
	17	Kanji numbering 4 (DBNUM4)
	18	Circle numbering (CIRCLENUM)
	19	Double-byte Arabic numbering
	20	46 phonetic double-byte katakana characters (AIUEO DBCHAR)
	21	46 phonetic double-byte katakana characters (IROHA DBCHAR)
	22	Arabic with leading zero (01, 02, 03,, 10, 11)
	23	Bullet (no number at all)
	24	Korean numbering 2 (GANADA)
	25	Korean numbering 1 (CHOSUNG)
	26	Chinese numbering 1 (GB1)
	27	Chinese numbering 2 (GB2)
	28	Chinese numbering 3 (GB3)
	29	Chinese numbering 4 (GB4)
	30	Chinese Zodiac numbering 1 (ZODIAC1)
	31	Chinese Zodiac numbering 2 (ZODIAC2)
	32	Chinese Zodiac numbering 3 (ZODIAC3)
	33	Taiwanese double-byte numbering 1
	34	Taiwanese double-byte numbering 2
	35	Taiwanese double-byte numbering 3
	36	Taiwanese double-byte numbering 4
	37	Chinese double-byte numbering 1
	38	Chinese double-byte numbering 2
	39	Chinese double-byte numbering 3
	40	Chinese double-byte numbering 4
	41	Korean double-byte numbering 1
	42	Korean double-byte numbering 2
	43	Korean double-byte numbering 3
	44	Korean double-byte numbering 4
	45	Hebrew non-standard decimal
	46	Arabic Alif Ba Tah
	47	Hebrew Biblical standard
	48	Arabic Abjad style
	49	Hindi vowels
	50	Hindi consonants
	51	Hindi numbers
	52	Hindi descriptive (cardinals)
	53	Thai letters
	54	Thai numbers
	55	Thai descriptive (cardinals)
	56	Vietnamese descriptive (cardinals)
	57	Page number format - # -

Control word	Meaning		
	58	Lower case Russian alphabet	
	59	Upper case Russian alphabet	
	60	Lower case Greek numerals (alphabet based)	
	61	Upper case Greek numerals (alphabet based)	
	62	2 leading zeros: 001, 002,, 100,	
	63	3 leading zeros: 0001, 0002,, 1000,	
	64	4 leading zeros: 00001, 00002,, 10000,	
	65	Lower case Turkish alphabet	
	66	Upper case Turkish alphabet	
	67	Lower case Bulgarian alphabet	
	68	Upper case Bulgarian alphabet	
	255	No number	
\leveljc/V	0	Left justified	
	1	Center justified	
	2	Right justified	
\leveInfcn <i>N</i>	Word 9 \level	arguments as \levelnfcN. Takes priority over \levelnfcN if both are present. In \langle \levelnfcN was interpreted differently by the Hebrew/Arabic versions. \leftarrow \leftar	
\leveljcn <i>N</i>	0	Left justified for left-to-right paragraphs and right justified for right-to-left paragraphs	
	1	Center justified	
	2	Right justified for left-to-right paragraphs and left justified for right-to-left paragraphs	
		2000, Word 2002, Word 2003, and Word 2007 prefer \leveljcnN to \leveljcN if both esent, but it will be written for backward compatibility with older readers.	
\levelold <i>N</i>		s level was converted from Word 6.0 or Word 95; 0 if it is a native Word 97 through 2007 level.	
\levelprev <i>N</i>	1 if this level includes the text from the previous level (used for Word 95 compatibility only); otherwise, the value is 0. This keyword will only be valid if the \leveloldN keyword is emitted.		
\levelprevspace/V	1 if this level includes the indentation from the previous level (used for Word 95 compatibility only); otherwise, the value is 0. This keyword will only be valid if the \leveloldN keyword is emitted.		
\levelindent/V		im distance from the left indent to the start of the paragraph text (used for Word 95 tibility only). This keyword will only be valid if the \leveloldN keyword is emitted.	
\levelspace/V	Minimum distance from the right edge of the number to the start of the paragraph text (used for Word 95 compatibility only). This keyword will only be valid if the \leveloldN keyword is emitted.		
\leveltext	include	ist is hybrid, as indicated by \listhybrid , the \leveltemplateidN keyword will be d, whose argument is a unique level ID that should be randomly generated. The \i is a long integer. The level ID cannot be between (-1) and (-5).	
	The first replace as "1.1 \'06\'	cond argument for this destination should be the number format string for this level. It character is the length of the string, and any numbers within the level should be ad by the index of the level they represent. For example, a level three number such1." would generate the following RTF: "{\leveltext \leveltemplateidN 00.\'01.\'02.}" where the '06 is the string length, the \'00, \'01, and \'02 are the laceholders, and the periods are the surrounding text. This is a destination control	

Control word	Meaning		
\levelnumbers	The argument for this destination should be a string that gives the offsets into the \leveltext of the level placeholders. In the preceding example, "1.1.1.", the \levelnumbers RTF should be		
	{\levelnumbers \'01\'03\'05}		
	because the level placeholders have indices 1, 3, and 5. This is a destination control word.		
\levelfollow/V	Specifies which character follows the level text:		
	0 Tab		
	1 Space		
	2 Nothing		
\levellegal <i>N</i>	1 if any list numbers from previous levels should be converted to Arabic numbers; 0 if they should be left with the format specified by their own level's definition.		
\levelnorestart <i>N</i>	1 if this level does not restart its count each time a super ordinate level is incremented; 0 if this level does restart its count each time a super ordinate level is incremented.		
\levelpicture/V	Determines which picture bullet from the \listpicture destination should be applied.		
\levelpicturenosize	If present, do not resize the picture bullet if the size of the \par marker is changed.		

In addition to all of these properties, each list level can contain any character properties (all of which affect all text for that level) and any combination of three paragraph properties: left indents, first line left indents, and tabs—each of which must be of a special type: \jclisttab. These paragraph properties will be automatically applied to any paragraph in the list.

List Override Table

The List Override table is a list of list overrides (destination \listoverride). Each list override contains the \listidN of one of the lists in the List table, and a list of any properties it chooses to override. Each paragraph will contain a list override index (keyword \lsN), which is a 1-based index into this table. Most list overrides do not override any properties—instead, they provide a level of indirection to a list. There are generally two types of list overrides:

- (1) Formatting overrides. Allows a paragraph to be part of a list and to be numbered along with the other members of the list, but have different formatting properties
- (2) Start-at overrides. Allows a paragraph to share the formatting properties of a list, but have different start-at values. The first element in the document with each list override index takes the start-at value that the list override specifies as its value, while each subsequent element is assigned the number succeeding the previous element of the list.

List overrides have a few top-level keywords, including a \listoverridecountN, which contains a count of the number of levels whose format is overridden. This \listoverridecountN should always be either 0, 1 or 9, depending upon whether the list to be overridden is simple (0 or 1) or hybrid/multilevel (9). All of the actual override information is stored within a list of list override levels (destination \lfolevel).

The syntax for the List Override table is as follows:

where the control words are defined by

Control word	Meaning
∖listidN	Should exactly match the \listid of one of the lists in the List table. The value $\it N$ is a long integer.
\listoverridecount <i>N</i>	Number of list override levels within this list override (0, 1 or 9).
\lsN	The (1-based) index of this \listoverride in the \listoverride table. This value should never be zero inside a \listoverride and must be unique for all \listoverride's within a document. The valid values are from 1 to 2000. The value 0 means no list.
\listoverridestartat	Indicates an override of the start-at value.
\listoverrideformat/V	Number of list format override levels within this list override (should be either 1, 9, or missing, which means 0).

Each list override level contains flags to specify whether the formatting or start-at values are being overridden for each level. If the format flag (\listoverrideformatN) is given, the \lfolevel should also contain a list level (<listlevel>). If the start-at flag (\listoverridestartat) is given, a start-at value must be provided. If the start-at is overridden but the format is not, then a \levelstartatN should be provided in the <lfolevel> itself. If both the start-at and the format are overridden, put the \levelstartatN inside the listlevel> contained in the <lfolevel>.

Paragraph Group Properties

Word 2002 introduced paragraph group properties, similar to style sheets. A document using paragraph group properties places a **\pgptbl** entry in the header. Elements in the Paragraph Group Properties (PGP) table are entered as they are created in the document and are identified with an **\ipgpN** value. The formatting options are taken from the regular paragraph formatting options. PGP table entries may exist with different **\ipgpN** values but with the same properties. Any paragraph that references an entry in the PGP table does so by emitting **\ipgpN**, which sets paragraph formatting options according to the entry in the PGP table. Additional formatting options may also be employed.

The PGP syntax is as follows:

```
<pgptbl> '{\*' \pgptbl <entry>+ '}'
<entry> '{' \pgp <value> '}'
<value> \ipgpN <parfmt>+
```

The following is a sample PGP table with two entries:

```
\label{pgptbl (pgp)ipgp13\itap0\li0\sa100} {pgp\lipgp80\itap0\li720\ri0\sb100\sa100}} \\
```

Revision Marks

This table allows tracking of multiple authors and reviewers of a document, and is used in conjunction with the character properties for tracking changes (using revision marks).

Control word	Meaning
*\revtbl	This group consists of subgroups that each identify the author of a revision in the document, as in {Author1;}. This is a destination control word.
	Revision conflicts, such as those that result when one author deletes another's additions, are stored as one group, in the following form:
	CurrentAuthor\'00\' <length author's="" name="" of="" previous="">PreviousAuthor\'00 PreviousRevisionTime</length>
	The 4 bytes of the Date/Time (DTTM) structure are emitted as ASCII characters, so values greater than 127 should be emitted as quoted hexadecimal values.

All time references for revision marks use the following bit field structure, DTTM.

Bit numbers	Information	Range
0-5	Minute	0-59
6–10	Hour	0-23
11-15	Day of month	1-31
16-19	Month	1-12
20-28	Year	= Year - 1900
29-31	Day of week	0 (Sun)-6 (Sat)

RSID

In Word 2002, a new style of revision tracking was established. RSIDs (Revision Save IDs) indicate when text or a property was changed. Whenever text is added or deleted or properties are changed, that text or property is tagged with the current "Save ID," which is a random number that changes each time the document is saved. They are primarily used when merging or comparing two documents with a common history but no revision marks. By reviewing the RSID we can tell which of the two authors made the change. Without the RSID we can only tell that there is a difference, but we do not know if (for example) it was an addition by author A or a deletion by author B. An RSID table is placed after all other style definitions and before the <generator> and <info> groups. Changed text and properties is contained in groups with an appropriate control word (like \insrsidN for insertions) that identifies the editing session.

The syntax for an RSID table is as follows:

<rsidtable> '{*' \rsidtbl \rsid<i>N</i>+ '}</rsidtable>	<rsidtable></rsidtable>	'{*'	\rsidtbl	\rsid <i>N</i> +	'}'
--	-------------------------	-------	----------	------------------	-----

Control word	Meaning		
*\rsidtbl	Destination for the revision save ID table.		
\rsid <i>N</i>	Each time a document is saved a new entry is added to this table, with $\it N$ being the random long integer number assigned to represent the unique session.		
\insrsid/V	An RSID is inserted where an insertion is made to denote the session in which particular text was inserted. Example: if "This is text." is inserted, it will be written in RTF as		
	{\insrsid8282541 This is text.}		
	For use in lists:		
	$ $$ {\nsrsid8282541 Item in List \par{\listtext\pard\plain\f3\insrsid8282541 \loch\af3\dbch\af0 \hich\f3 \b7\tab}} $$$		

\rsidroot <i>N</i>	Designates the start of the document's history (first save).
\delrsid <i>N</i>	RSID value identifying when text was marked as deleted.
\charrsid <i>N</i>	RSID value identifying when character formatting was changed.
\sectrsid <i>N</i>	RSID identifying when section formatting was changed.
\pararsid <i>N</i>	RSID identifying when paragraph formatting was changed.
\tblrsid <i>N</i>	RSID identifying when table formatting was changed.

Old Properties

With tracking enabled, you can document changes to formatting. To keep track of the property before the changes were made, Old Properties were created. This tracking uses the following syntax:

<oldprop></oldprop>	'{*' <oldproptype> <oldproperties>+ <trackinginfo> ';}'</trackinginfo></oldproperties></oldproptype>
<oldproptype></oldproptype>	\oldcprops \oldprops \oldsprops
<oldproperties></oldproperties>	This section includes any of the relevant format tags that would have to be put in place to revert the document to its pre-edit form. For example, this would be $\begin{tabular}{c} \bf b0 \end{tabular}$ if the user had chosen to make the selection bold.
<trackinginfo></trackinginfo>	This can be any tag used to track the author, revision ID, and date.

Control word	Meaning
\oldcprops	Old character formatting properties.
\oldpprops	Old paragraph formatting properties.
\oldtprops	Old table formatting properties.
\oldsprops	Old section formatting properties.

The following is an example of the correct use of the Old Properties when bold and italic are applied to a section of existing text. If the original text "This is a test." is changed to "This *is a* test.", the following code example will be formed, which would tell an RTF reader that to undo the change to the character property bold and italic would have to be disabled:

User Protection Information

The following is the syntax for the user protection information group, which lists the specific users granted exceptions to the document protection.

	•
<userprotection></userprotection>	'{*' \protusertbl <user>+ '}'</user>
<user></user>	'{' #PCDATA '}'
	A user name is enclosed by braces.

Control word	Meaning
\protusertbl	Table of users referenced during document protection.

Example of user protection information:

```
{\*\protusertbl{DOMAIN\'5cuserone}{DOMAIN\'5cusertwo}{DOMAIN\'5cuserthree}}
```

Generator

Word 2002, Word 2003, and Word 2007 allow the RTF emitter application to stamp the document with its name, version, and build number. The generator area has the following syntax:

<generator> '{*' \generator <name> ';}'

<name> #PCDATA, the name of the program, the version, the build, and any other information about

Only ASCII text is allowed in this field.

Document Area

Once the RTF header is defined, the RTF reader has enough information to correctly read the actual document text. The <document> contains document information followed by one or more sections. It has the following syntax:

```
<document> <info>? <xmlnstbl>? <docfmt>* <section>+
```

Information Group

The **\info** control word introduces the information group, which contains information about the document. This can include the title, author, keywords, comments, and other information specific to the file. This information is for use by a document-management tool, if available.

The information group has the following syntax:

```
<info>
                   '{' \info <title>? & <subject>? & <author>? & <manager>? & <company>? <operator>? &
                   <category>? & <keywords>? & <comment>? & \versionN? & <doccomm>? & \vernN? &
                   <creatim>? & <revtim>? & <printim>? & <buptim>? & \edminsN? & \nofpagesN? &
                   \nofwordsN? \nofcharsN? & \idN? '}'
<title>
                   '{' \title #PCDATA '}'
<subject>
                   '{' \subject #PCDATA '}'
<author>
                   '{' \author #PCDATA '}'
<manager>
                   '{' \manager #PCDATA '}'
<company>
                   '{' \company #PCDATA '}'
<operator>
                   '{' \operator #PCDATA '}'
                   '{' \category #PCDATA '}'
<category>
                   '{' \keywords #PCDATA '}'
<keywords>
<comment>
                   '{' \comment #PCDATA '}'
                   '{' \doccomm #PCDATA '}'
<doccomm>
<hlinkbase>
                   '{' \hlinkbase #PCDATA '}'
<creatim>
                   '{' \creatim <time> '}'
<revtim>
                   '{' \revtim <time> '}'
<printim>
                   '{' \printim <time> '}'
```

<bup>

'{' \buptim <time> '}'

<time> $\mbox{\mbox{\mbox{$\m$

Some applications, such as Word, ask the user to type this information when saving the document in its native format. If the document is then saved as an RTF file or translated into RTF, the RTF writer specifies this information using control words in the following table. These control words are destinations, and both the control words and the text should be enclosed in braces ({ }).

Control word	Meaning
\info	Destination for document information group.
\title	Title of the document. This is a destination control word.
\subject	Subject of the document. This is a destination control word.
\author	Author of the document. This is a destination control word.
\manager	Manager of the author. This is a destination control word.
\company	Company of the author. This is a destination control word.
\operator	Person who last made changes to the document. This is a destination control word.
\category	Category of the document. This is a destination control word.
\keywords	Selected keywords for the document. This is a destination control word.
\comment	Comments; text is ignored. This is a destination control word.
\version <i>N</i>	Version number of the document.
\doccomm	Comments displayed in the Summary Info or Properties dialog box in Word. This is a destination control word.
\hlinkbase	The base address that is used for the path of all relative hyperlinks inserted in the document. This can be a path or an Internet address (URL). This is a destination control word.

The **\userprops** control word introduces the user-defined document properties. Unique **\propname** control words define each user-defined property in the document. This group has the following syntax:

<userprops></userprops>	'{*' \userprops <propinfo>* '}'</propinfo>
<pre><pre><pre>opinfo></pre></pre></pre>	'{' <propname> \proptypeN <staticval> <linkval>? '}'</linkval></staticval></propname>
<pre><pre><pre><pre></pre></pre></pre></pre>	'{' \propname #PCDATA '}'
<staticval></staticval>	'{' \staticval #PCDATA '}'
kval>	'{' \linkval #PCDATA '}'
Control word	Meaning
Control word \userprops	Meaning Destination for user-defined properties.
\userprops	Destination for user-defined properties.

\proptypeN	Speci	fies property type:
	3	Integer
	5	Real number
	64	Date
	11	Boolean
	30	Text

The RTF writer may automatically enter other control words, including those in the following table.

Control word	Meaning
\vern/V	Internal version number
\creatim	Creation time
\revtim	Revision time
\printim	Last print time
\buptim	Backup time
\edminsN	Total editing time (in minutes)
\yrN	Year
\mo/V	Month
\dy <i>N</i>	Day
\hrN	Hour
\min/V	Minute
\sec/V	Seconds
\nofpages <i>N</i>	Number of pages
\nofwords <i>N</i>	Number of words
\nofcharsN	Number of characters including spaces
\nofcharswsN	Number of characters not including spaces
\id <i>N</i>	Internal ID number

Any control word described in the previous table that does not have a numeric parameter specifies a date; all dates are specified with the \yrN \moN \dyN \hrN \minN \secN control words. An example of an information group follows:

```
\label{title Template} $$ \operatorname{DOE}_{\operatorname{DOP}_{\operatorname{DOP}_{\operatorname{DOP}_{\operatorname{DOP}_{\operatorname{DOP}_{\operatorname{DOP}_{\operatorname{DOP}_{\operatorname{DOP}_{\operatorname{CPATIM}_{\operatorname{CPATIM}_{\operatorname{COMPAN}_{\operatorname{CPATIM}_{\operatorname{CPATIM}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname{COMPAN}_{\operatorname
```

Read-Only Password Protection

This control word contains hex-encoded encrypted data representing the password needed to edit the given RTF document. For more information on the encryption algorithm used, please see the WordprocessingML element documentProtection discussed in Office Open XML.

Read-Only Password Protection consists of a single control word with the following syntax:

```
<passwordhash> '{\*' \passwordhash #SDATA '}'
```

For example:

```
{\*\passwordhash
```

010000004c0000001000000480000050c300001400000010000000f89c360d0c9d360d000000008bc29e2f78a2144122ed6 8a1701e2ea50bbbbeaf7333c40dfe048ccf55f709b8cc7e8b49}

Note: the control word **\password** was supported by Word 2003, but has been deprecated because it is not as secure (uses weak encryption).

XML Namespace Table

XML Namespace tables contain the namespaces for XML and SmartTags that are used in an RTF-formatted document.

SmartTags and custom XML markup each provide a facility for embedding customer-defined semantics into the document as follows:

- SmartTags use the ability to provide a basic namespace or name for a run or set of runs in a document (see <u>Custom XML Tags</u>).
- Custom XML markup uses the ability to tag the document that uses XML elements and attributes that are specified by any valid XML Schema file.

The XML Namespace table has the following syntax:

```
<xmInstbl> '{\*' \xmInstbl <xmInsdecl>* '}'
<xmInsdecl> '{' \xmInsN #PCDATA '}'
```

For example:

```
{\*\xmlnstbl{\xmlns1 {HYPERLINK "http://exampleuri.org"}}}
```

The following table lists the Namespace Table control words:

Control word	Meaning
*\xmInstbl	XML namespace table
\xmlnsN	XML namespace table entry. This control word is also used in the body text to identify data belonging to the corresponding namespace (see Custom XML Tags).

Document Formatting Properties

After the information group and XML namespace table (if they are present), there may be some document formatting control words (referred to as <docfmt> in the document area syntax description). These control words are listed in the following table and specify document attributes, such as margins and footnote placement. These attributes must precede the first plain-text character in the document. Measurements are in twips, one-twentieth of a point. For omitted control words, RTF uses the default values.

Note that three of the document-protection control words (\formprot, \revprot, and \annotprot) are mutually exclusive; only one of the three can apply to any given document.

On the other hand, **\readprot** indicates that the document is set to Read-Only protection, but allows exceptions, and can appear with **\annotprot** control words for backward compatibility.

Control word	Meaning	
\deftab <i>N</i>	Default tab width in twips (default is 720, i.e., 0.5").	
\hyphhotz <i>N</i>	Hyphenation hot zone in twips (amount of space at right margin in which words are hyphenated).	
\hyphconsec/V	${\it N}$ is maximum number of consecutive lines that are allowed to end in a hyphen. 0 means no limit.	
\hyphcaps*	Switches hyphenation of capitalized words (default is on). Append 1 or leave control word by itself to toggle property on; append 0 to turn it off.	
\hyphauto*	Switches automatic hyphenation (default is off). Append 1 or leave control word by itself to toggle property on; append 0 to turn it off.	
\linestart/V	Beginning line number (default is 1).	
\fracwidth	Uses fractional character widths when printing (QuickDraw only).	
*\nextfile	The argument is the name of the next file to print or index; it must be enclosed in braces. This is a destination control word.	
*\template	The argument is the name of a related template file; it must be enclosed in braces. This is a destination control word.	
\makebackup	Backup copy is made automatically when the document is saved.	
\muser	Flag written if Word 97 compatibility mode is active; ignored when read.	
\defformat	Tells the RTF reader that the document should be saved in RTF format.	
\psover	Prints PostScript over the text.	
\doctemp	Document is a boiler plate document. For Word for Windows, this is a template; for Word for the Macintosh, this is a stationery file.	
\windowcaption	Sets the caption text for the document window. This is a string value.	
\doctypeN	An integer $(0-2)$ that describes the document type for AutoFormat.	
	O General document (for formatting most documents, the default)	
	1 Letter (for formatting letters, and used by Letter Wizard)	
	E-mail (for formatting e-mail, and used by WordMail)	
\ilfomacatcInup <i>N</i>	If $N=1$, this control word specifies that the last attempt made by the application to remove unused abstract numbering definitions from the document was incomplete. If a legacy document is opened by a consumer, it may choose to remove abstract numbering definitions that are 'orphaned' (have no associated numbering definition instances). This control word is used by those consumers to indicate their progress (if incomplete) in reviewing existing abstract numbering definitions.	
	Note: Removing unused abstract numbering definition from a document will reduce the file size, but is not required.	
	If omitted or $\mathbf{N} = 0$, then all abstract numbering definitions shall be considered reviewed.	
\horzdoc	Horizontal rendering.	
\vertdoc	Vertical rendering.	
\jcompress	Compressing justification (default).	
\jexpand	Expanding justification.	
\Inongrid	Define line based on the grid.	

Meaning

Control word

\grfdoceventsN Event bit mask for the Word object model Document event methods used to ensure the instantiation of a Visual Basic project that depends on the events corresponding to nonzero bits of N. With no nonzero bits, Word doesn't instantiate VB projects until the user manually looks at them or at the macro list. **Object model Document event method** 0 New 1 Open 2 Close 3 Sync 4 XMLAfterInsert 5 XMLBeforeDelete (reserved for internal use) 7 (reserved for internal use) 8 ContentControlAfterAdd 9 ContentControlBeforeDelete 10 ContentControlOnExit 11 ContentControlOnEnter 12 ContentControlBeforeStoreUpdate 13 Content Control Before Content UpdateBuildingBlockInsert 14 \themelangN Specifies the language (via the language IDs defined in the standard language table) that the given document's Theme is using for font resolution. \themelangfeN Specifies the language (via language IDs) that the given document's Theme is using for font resolution of the FE font variation \themelangcsN Specifies the language (via language IDs) that the given document's Theme is using for font resolution of the complex scripts font variation. \relyonvmIN If N = 1, applications may utilize the Vector Mark-up Language (VML) when saving the content of this RTF document as a Web page, when graphical elements that can use this format are present in the document. If this control word is omitted or N = 0, then a graphic image format should be used either in place of or in concert with the VML output to specify the formatting and positioning for objects that are part of the resulting Web page. **Note:** This setting is intended for applications to save Web pages that can be supported by legacy Web browsers that do not support VML when attempting to read and display the resulting Web page. \validatexmlN If N = 1, applications should validate the custom XML markup in this document against the applicable custom XML schema(s), when those schemas are available. If N = 0, the

application should silently behave as if it was unable to provide this functionality.

If this control word is omitted, then applications that support this functionality should attempt to validate the custom XML contents against any available related custom XML schema(s).

Control word	Meaning
*\xform	This destination control word specifies the location of a custom XSL transform that shall be used when this document is saved as a single XML file.
	Note: Because this setting specifies behavior when saving to an alternative file format not defined by Office Open XML, this behavior is optional.
	If this element is omitted, then no custom XSL transform shall be used when saving this file as a single XML file. If the \usexform control word is omitted, then this transform shall not be applied when the document is saved as a single XML file.
	For example, consider the RTF specifying to save through the XSL transform located at c:\temp\myxslt.xsl:
	{*\xform c:\\temp\\myxslt.xsl}
\donotembedsysfont <i>N</i>	If $N = 0$, applications should embed common system fonts when they are in use and font embedding is enabled for this document. <i>Common system fonts</i> refer to a set of fonts that are typically always present on a computer, and are not defined by this spec.
	If this control word is omitted or $N = 1$, then the set of fonts defined as common system fonts should not be embedded in the current document when font embedding is turned on.
\donotembedlingdata/V	Speech, handwriting and controls text service data received from devices connected to Microsoft Office using the Windows Text Service Framework Application Programming Interface should ($N = 0$) or should not ($N = 1$) be embedded in the given RTF document.
\showplaceholdtext/V	If $N=1$, each custom XML control word within this document should always show some form of in-document placeholder text representation when it contains no run content. If placeholder text is not specified, then the application shall use the name of the control word to generate default placeholder text in its place.
	If this control word is omitted or $\mathbf{N} = 0$, then custom XML markup that does not have placeholder text specified within its properties should not display any placeholder text.
\trackmovesN	If $N=1$, applications should track moves when the \revisions control word is present. If move tracking is not enabled (\revisions control word is not present, or is inactive) what would otherwise be considered moves are tracked as deletions (\deleted) and insertions (\revised). If $N=0$, moves should not be tracked.
\trackformatting <i>N</i>	If $N=1$, applications should track revisions made to the formatting of this RTF document when the \revisions control word is present. If $N=0$, formatting should not be tracked.
\ignoremixedcontent/V	If $N=1$, applications should ignore all text content that is not contained within a leaf custom XML markup control word when validating the contents of the custom XML markup in this document against one or more attached custom XML schema(s).
	A <i>leaf control word</i> is a custom XML control word that has no child custom XML control words (it is a leaf in the custom XML tree).
	If this control word is omitted or $\mathbf{N} = 0$, then text content in leaf control words should not be ignored when validating the custom XML markup against one or more custom XML schema(s).
\saveinvalidxml <i>N</i>	If ${\it N}=1$, this document should be capable of being saved into a format consisting of a single XML file when its contents are not valid based on the custom XML markup contained in the document. This setting has no effect on documents that do not contain custom XML markup, or that do contain custom XML markup but do not have a schema attached.
	Note: Because this setting specifies behavior when saving to an alternative file format not defined by this spec, this behavior is optional.
	If this control word is omitted or $\mathbf{N} = 0$, then applications should not allow this document to be saved into a single XML file when its contents are not valid based on the custom XML markup contained in the document

If the \validatexmlN control word is present, then the XML is never invalid and this property

is ignored.

markup contained in the document.

Control word	Meanin	ng
\showxmlerrors/V		, a visual cue should be displayed on content contained in custom XML markup in an ument that is considered to be invalid based on the associated XML schema(s).
	If this co	ontrol word is not present in an RTF document or $N = 0$, visual cues should be not d.
\stylelocktheme	documer the use	trol word specifies whether applications shall prevent the modification of the nt's theme information when editing this document. This setting should not preclude of the theme information; instead, it should only prevent the modification of the art in a single operation (either through a user interface or a programmatic n).
		ontrol word is omitted, then applications may allow the replacement or modification one part in this document.
\stylelockqfset	complete editing o replacen	trol word specifies whether applications shall prevent the replacement of the e set of styles when editing this document. This setting should not preclude the or removal of individual styles; instead, it should only prevent the removal and nent of the entire styles part in a single operation (either through a user interface or immatic operation).
		ontrol word is omitted, then applications may allow the replacement of the entire art in this document.
\usenormstyforlist		trol word specifies whether applications shall automatically apply their list paragraph en numbering is applied to a paragraph currently formatted using the default oh style.
	subsequ	v, when a paragraph is formatted using the default paragraph style, and numbering is ently applied, the list paragraph style is applied to ensure that paragraph properties ropriate for a numbered paragraph.
	This con	trol word specifies that no alternate paragraph style shall ever be applied.
*\wgrffmtfilter	suggeste styles ar	trol word is followed by a four-digit hexadecimal string that specifies a set of ed filters that should be applied to the list of document styles in the application if the re displayed in a user interface. The is any combination of the following filtering imal values OR'd together:
	Value	Description
	0001	Specifies that all styles present should be displayed in the list of document styles.
	0002	Specifies that only custom styles should be displayed in the list of document styles.
	0004	Specifies that all latent styles should be displayed in the list of document styles.
	8000	Specifies that only styles used in the document should be displayed in the list of document styles.
	0010	Undefined. Shall not be used.
	0020	Specifies that heading styles should be displayed in the list of document styles when the previous style is used in the document or is present in the styles part.
	0040	Specifies that numbering styles should be displayed in the list of document styles.
	0800	Specifies that table styles should be displayed in the list of document styles.
	0100	Specifies that all unique forms of run-level direct formatting should be displayed in the list of document styles as though they were each a unique style.
	0200	Specifies that all unique forms of paragraph-level direct formatting should be displayed in the list of document styles as though they were each a unique style.
	0400	Specifies that all unique forms of direct formatting of numbering data should be displayed in the list of document styles as though they were each a unique style.
	0800	Specifies that all unique forms of direct formatting of tables should be displayed in the list of document styles as though they were each a unique style.

Control word	Meaning	
	1000	Specifies that a style should be present that removes all formatting and styles from text.
	2000	Specifies that the first three heading styles should always be displayed in the list of document styles.
	4000	Specifies that styles should only be shown if the $\sp \$ control word is 0 and the $\sp \$ control word isn't present.
	8000	Specifies that primary names for styles should not be shown if an alternate name using the name control word exists.
	Any other value	Undefined. Shall not be used.
	If this cont	trol word is omitted, then all settings defined by this control word are turned off.
	Example:	Consider an RTF document containing the following:
	{*\wgrff	Emtfilter 2002}
	This specif	ies two suggested filter options for the list of document styles:
	1) O	nly custom styles should be shown (0002)
		eading styles with a style ID of Heading1 to Heading3 should always be displayed the list (2000)
\readonlyrecommended	Specifies t	hat this document is recommended to be read-only.
\stylesortmethod <i>N</i>		ol word specifies a suggested sorting that should be applied to the list of document his application if the styles are displayed in a user interface.
	If this cont $N = 1$.	trol word is omitted styles should be sorted as if this control word was present with
	Value	Description
	0	Specifies that visible styles should be sorted by their names.
	1	Specifies that visible styles should be sorted by the default sorting of the host application.
		Note: In Microsoft Office Word 2007 the default sorting order is specified by the \spriorityN control word.
	2	Specifies that visible styles should be sorted by the font for which they apply.
	3	Specifies that visible styles should be sorted by the style on which they are based.
	4	Specifies that visible styles should be sorted by their style types (e.g., character, linked, paragraph).
	Any othe value	r Undefined. Shall not be used.
*\writereservhash	edit the gives see the Wo	ol word contains hex-encoded encrypted data representing the password needed to ven RTF document. For more information on the encryption algorithm used please ordprocessingML element documentProtection discussed in Office Open XML . This is on control word.

This destination control word was used in Word 2003 but has been deprecated in favor of

This control word specifies if a document's thumbnail should be generated for the contents of the first page of this document when saved by an application that supports document

If this control word is omitted, then applications may choose to save a thumbnail; however, that behavior is not required. If this control word is specified, a thumbnail must be produced

\writereservhash since \writereservation uses weak encryption.

if that functionality is supported.

thumbnail generation.

*\writereservation

\saveprevpict

Control word	Mear	ning
Document Views	and Zoom	Level
\viewkind <i>N</i>	An int	eger (0 through 5) that represents the view mode of the document.
	0	None
	1	Page Layout view
	2	Outline view
	3	Master Document view
	4	Draft view
	5	Online Layout view
\viewscale <i>N</i>	Zoom 100).	level of the document; the \emph{N} argument is a value representing a percentage (default is
\viewzk/V	An int	eger (0 through 3) that represents the zoom kind of the document.
	0	None
	1	Full page
	2	Best fit
	3	Text width
\viewbksp/V	Boolea	an:
	0	Background shapes will not show in Page Layout View (default if omitted).
	1	Background shapes will show in Page Layout View.
\private	Obsol	ete destination. It has no leading *. It should be skipped.
Footnotes and En	dnotes	
\fet/V	Footn	note/endnote type. This indicates the types of notes that are present in the document.
	0	Footnotes only or nothing at all (the default)
	1	Endnotes only
	2	Both footnotes and endnotes
	along	ackward compatibility, if \fet1 is emitted, \endnotes or \enddoc will be emitted with \aendnotes or \aenddoc . RTF readers that understand \fet will need to ignore potnote-positioning control words and use the endnote control words instead.
\ftnsep	Text	argument separates footnotes from the document. This is a destination control word.
\ftnsepc		argument separates continued footnotes from the document. This is a destination ol word.
\ftncn	Text	argument is a notice for continued footnotes. This is a destination control word.
\aftnsep	Text	argument separates endnotes from the document. This is a destination control word.
\aftnsepc		argument separates continued endnotes from the document. This is a destination ol word.
\aftncn	Text	argument is a notice for continued endnotes. This is a destination control word.
\endnotes	Footr	notes at the end of the section (the default).
\enddoc	Footr	notes at the end of the document.
\ftntj	Footr	notes beneath text (top justified).
\ftnbj	Footr	notes at the bottom of the page (bottom justified).
\aendnotes	Endn	otes at end of section (the default).
\aenddoc	Endn	otes at end of document.
\aftnbj	Endn	otes at bottom of page (bottom justified).
\aftntj	Endn	otes beneath text (top justified).

Control word	Meaning	
\ftnstart <i>N</i>	Beginning footnote number (default is 1).	
\aftnstart/V	Beginning endnote number (default is 1).	
\ftnrstpg	Restart footnote numbering each page.	
\ftnrestart	Footnote numbers restart at each section. Microsoft Word for the Macintosh uses this control to restart footnote numbering at each page.	
\ftnrstcont	Continuous footnote numbering (the default).	
\aftnrestart	Restart endnote numbering each section.	
\aftnrstcont	Continuous endnote numbering (the default).	
\ftnnar	Footnote numbering—Arabic numbering (1, 2, 3,).	
\ftnnalc	Footnote numbering—Alphabetical lowercase (a, b, c,).	
\ftnnauc	Footnote numbering—Alphabetical uppercase (A, B, C,).	
\ftnnrlc	Footnote numbering—Roman lowercase (i, ii, iii,).	
\ftnnruc	Footnote numbering—Roman uppercase (I, II, III,).	
\ftnnchi	Footnote numbering—Chicago Manual of Style (*, †, ‡, §).	
\ftnnchosung	Footnote Korean numbering 1 (CHOSUNG).	
\ftnncnum	Footnote Circle numbering (CIRCLENUM).	
\ftnndbnum	Footnote kanji numbering without the digit character (DBNUM1).	
\ftnndbnumd	Footnote kanji numbering with the digit character (DBNUM2).	
\ftnndbnumt	Footnote kanji numbering 3 (DBNUM3).	
\ftnndbnumk	Footnote kanji numbering 4 (DBNUM4).	
\ftnndbar	Footnote double-byte numbering (DBCHAR).	
\ftnnganada	Footnote Korean numbering 2 (GANADA).	
\ftnngbnum	Footnote Chinese numbering 1 (GB1).	
\ftnngbnumd	Footnote Chinese numbering 2 (GB2).	
\ftnngbnuml	Footnote Chinese numbering 3 (GB3).	
\ftnngbnumk	Footnote Chinese numbering 4 (GB4).	
\ftnnzodiac	Footnote numbering—Chinese Zodiac numbering 1 (ZODIAC1). 甲、乙、丙…	
\ftnnzodiacd	Footnote numbering—Chinese Zodiac numbering 2 (ZODIAC2). 子、丑、寅…	
\ftnnzodiacl	Footnote numbering—Chinese Zodiac numbering 3 (ZODIAC3).	
\aftnnar	Endnote numbering—Arabic numbering (1, 2, 3,).	
\aftnnalc	Endnote numbering—Alphabetical lowercase (a, b, c,).	
\aftnnauc	Endnote numbering—Alphabetical uppercase (A, B, C,).	
\aftnnrlc	Endnote numbering—Roman lowercase (i, ii, iii,).	
\aftnnruc	Endnote numbering—Roman uppercase (I, II, III,).	
\aftnnchi	Endnote numbering—Chicago Manual of Style (*, †, ‡, §).	
\aftnnchosung	Endnote Korean numbering 1 (CHOSUNG).	
\aftnncnum	Endnote Circle numbering (CIRCLENUM).	
\aftnndbnum	Endnote kanji numbering without the digit character (DBNUM1).	
\aftnndbnumd	Endnote kanji numbering with the digit character (DBNUM2).	
\aftnndbnumt	Endnote kanji numbering 3 (DBNUM3).	
\aftnndbnumk	Endnote kanji numbering 4 (DBNUM4).	
\aftnndbar	Endnote double-byte numbering (DBCHAR).	

Control word	Meaning	
\aftnnganada	Endnote Korean numbering 2 (GANADA).	
\aftnngbnum	Endnote Chinese numbering 1 (GB1).	
\aftnngbnumd	Endnote Chinese numbering 2 (GB2).	
\aftnngbnuml	Endnote Chinese numbering 3 (GB3).	
\aftnngbnumk	Endnote Chinese numbering 4 (GB4).	
\aftnnzodiac	Endnote numbering—Chinese Zodiac numbering 1 (ZODIAC1). 甲・乙・丙…	
\aftnnzodiacd	Endnote numbering—Chinese Zodiac numbering 2 (ZODIAC2). 子・丑・寅…	
\aftnnzodiacl	Endnote numbering—Chinese Zodiac numbering 3 (ZODIAC3).	
Page Information		
\paperw/V	Paper width in twips (default is 12,240).	
\paperhN	Paper height in twips (default is 15,840).	
\pszN	Used to differentiate between paper sizes with identical dimensions in Microsoft Windows. Values 1 through 41 correspond to paper sizes defined in DRIVINI.H in the Windows SDK (DMPAPER_ values). Values greater than or equal to 42 correspond to user-defined forms in Windows.	
\margl <i>N</i>	Left margin in twips (default is 1800).	
\margr/V	Right margin in twips (default is 1800).	
\margt/V	Top margin in twips (default is 1440).	
\margb <i>N</i>	Bottom margin in twips (default is 1440).	
\facingp	Facing pages (activates odd/even headers and gutters).	
\gutter/V	Gutter width in twips (default is 0).	
\ogutterN	Outside gutter width (default is 0; not used by Word, but in 1987 RTF Spec)	
\rtlgutter	Gutter is positioned on the right.	
\gutterprl	Parallel gutter.	
\margmirror	Switches margin definitions on left and right pages. Used in conjunction with \facingp .	
\landscape	Landscape format.	
\pgnstart/V	Beginning page number (default is 1).	
\widowctrl	Enable widow and orphan control.	
\twoonone	Print two logical pages on one physical page.	
\bookfold	Book fold printing. Allows for printing documents that can easily be made into pamphlets. This will print two pages side by side in landscape mode, and will print to the back of the sheet if the printer supports duplex printing.	
\bookfoldrev	Reverse book fold printing for bidirectional languages.	
\bookfoldsheetsN	Sheets per booklet; this should be a multiple of four.	
Linked Styles		
\linkstyles	Update document styles automatically based on template.	
Compatibility Options		
\notabind	Do not add automatic tab stop for hanging indent.	
\wraptrsp	Wrap trailing spaces onto the next line.	
\prcolbl	Print all colors as black.	
\noextrasprl	Do not add extra space to line height for showing raised/lowered characters.	

Control word	Meaning
\nocolbal	Do not balance columns.
\cvmme	Treat old-style escaped quotation marks (\") as current style ("") in mail merge data documents.
\sprstsp	Suppress extra line spacing at top of page. Basically, this means to ignore any line spacing larger than Auto at the top of a page.
\sprsspbf	Suppress space before paragraph property after hard page or column break.
\otblrul	Combine table borders as done in Word $5.x$ for the Macintosh. Contradictory table border information is resolved in favor of the first cell.
\transmf	Metafiles are considered transparent; do not blank the area behind metafiles.
\swpbdr	If a paragraph has a left border (not a box) and the \facingp is active (different odd and even page headings/footings) or \margmirror is active, Word will print the border on the right for odd-numbered pages.
\brkfrm	Show hard (manual) page breaks and column breaks in frames.
\sprslnsp	Suppress extra line spacing like WordPerfect version 5.x.
\subfontbysize	Substitute fonts based on size first.
\truncatefontheight	Round down to the nearest font size instead of rounding up.
\truncex	Do not add leading (extra space) between rows of text.
\bdbfhdr	Print body before header/footer. Option for compatibility with Word $5.x$ for the Macintosh.
\dntblnsbdb	Do not balance SBCS/DBCS characters. Option for compatibility with Word 6.0 (Japanese).
\expshrtn	Expand character spaces on line-ending with SHIFT+RETURN. Option for compatibility with Word 6.0 (Japanese).
\lytexcttp	Do not center exact line height lines.
\lytprtmet	Use printer metrics to lay out document.
\msmcap	Small caps like Word 5.x for the Macintosh.
\nolead	No external leading. Option for compatibility with Word $5.x$ for the Macintosh.
\nospaceforul	Do not add space for underline. Option for compatibility with Word 6.0 (Japanese).
\noultrlspc	Do not underline trailing spaces. Option for compatibility with Word 6.0 (Japanese).
\noxlattoyen	Do not translate backslash to Yen sign. Option for compatibility with Word 6.0 (Japanese).
\oldlinewrap	Lines wrap like Word 6.0.
\sprsbsp	Suppress extra line spacing at bottom of page.
\sprstsm	Does nothing. This keyword should be ignored.
\wpjst	Do full justification like WordPerfect $6.x$ for Windows.
\wpsp	Set the width of a space like WordPerfect 5.x.
\wptab	Advance to next tab stop like WordPerfect 6.x.
\splytwnine	Do not lay out AutoShapes like Word 97.
\ftnlytwnine	Do not lay out footnotes like Word 6.0, Word 95, and Word 97.
\htmautsp	Use HTML paragraph auto spacing.
\useltbaln	Do not forget last tab alignment.
\alntblind	Do not align table rows independently.
\lytcalctblwd	Do not lay out tables with raw width.
\lyttblrtgr	Do not allow table rows to lay out apart.
\oldas	Use Word 95 Auto spacing.
\Inbrkrule	Do not use Word 97 line breaking rules for Asian text.

Control word	Meaning	
\bdrrlswsix	Use Word 6.0/Word 95 borders rules.	
\nolnhtadjtbl	Do not adjust line height in table.	
\ApplyBrkRules	Use line breaking rules compatible with Thai text.	
\rempersonalinfo	Instructs emitting program to remove personal information such as the author's name as a document property or in a comment.	
\remdttm	Instructs emitting program to remove date/time as a document property or in a comment.	
\snaptogridincell	Snap text to grid inside table with inline objects.	
\wrppunct	Allow hanging punctuation in character grid.	
\asianbrkrule	Use Asian rules for line breaks with character grid.	
\nobrkwrptbl	Do not break wrapped tables across pages.	
\toplinepunct	Enables punctuation at the start of a line to compress.	
\viewnobound	Hide white space between pages.	
\donotshowmarkup	Do not show markup while reviewing.	
\donotshowcomments	Do not show comments while reviewing.	
\donotshowinsdel	Do not show insertions and deletions while reviewing.	
\donotshowprops	Do not show formatting while reviewing.	
\allowfieldendsel	Enables selecting the entire field with the first or last character.	
\nocompatoptions	Specifies that all compatibility options should be set to default.	
\nogrowautofit	Do not allow tables set to "autofit to contents" to extend into the margins when in Print Layout. This is the default behavior for Word 2003, which keeps tables within the margins.	
\newtblstyruls	Use the table style rules new to Word 2003. Applies the top border of a column in a more intuitive place when there is a header row in the table. Word 2002 places the top border of a column under the heading row, rather than above it as Word 2003 does.	
*\background	Destination specifying the document background. This is a destination control word. It contains the \shp keyword and relevant shape properties.	
\nouicompat	Equivalent to \nofeaturethrottle1. If both this control word and \nofeaturethrottleN are present, the last one read determines the result.	
\nofeaturethrottle <i>N</i>	If $N=1$, UI functionality that is not compatible with Word 97-2003 shall not be disabled when the given RTF file is opened. In addition, at the time of Microsoft Office Word 2007 release, this control word specifies that all compatibility options in the document that maintain compatibility with previous word processing applications shall be removed from the file or set to "0" with the exception of:	
	 \nospaceforul 	
	• \Inbrkrule	
	• \noxlattoyen	
	• \expshrtn	
	• \dntultrlspc	
	 \dntblnsbdbwid 	
	 \dontadjustlineheightintable 	
	If both \nouicompat and \nofeaturethrottleN are missing or $N = 0$, UI functionality that is not compatible with Word 97-2003 shall be disabled when the given RTF file is opened, and existing compatibility options shall be unaffected.	
	If both this control word and \nouicompat are present, the last one read determines the	

result.

Meaning

\forceupgrade

This control word specifies that the contents of the document may be upgraded and that the resulting document shall not have its functionality limited to only those functions compatible with earlier word processing applications. The only action required as part of upgrading the document is the instantiation of the **\nofeaturethrottle1** and/or **\nouicompat** control words.

Note: At the time of Microsoft Office Word 2007 release, respecting this control word means that all compatibility options in the document that maintain compatibility with previous word processing applications shall be removed from the file or set to "0" with the exception of:

- \nospaceforul
- \Inbrkrule
- \noxlattoyen
- \expshrtn
- \dntultrlspc
- \dntblnsbdbwid
- \dontadjustlineheightintable

If an application does not know how to upgrade a document, this control word and the **\nofeaturethrottleN** and **\nouicompat** control words should be ignored and persisted.

Note: The remaining operations that shall be performed as part of upgrading the document are application-defined and outside the scope of this specification.

\noafcnsttbl

This control word specifies whether applications shall allow tables to be resized to the remaining available line width when they are using the AutoFit algorithm, and part of that line is filled by a shape with a wrapping type of square or tight.

Typically, a table that is AutoFit and has a preferred width shall have its width reduced to allow a floating shape to wrap around its contents within the document, as that shape reduces the width of the line and the AutoFit algorithm applies to the remaining line width.

This control word specifies that tables shall never have any preferred width overridden to allow them to wrap around that floating object, and shall instead be pushed to the next full width line in the document to be displayed.

Example: Consider an RTF document with a floating shape centered in the document, followed by a table with preferred cell widths of 2.22", as follows:

This is some	text.		
This is some text.			

This is some text.

The default presentation of this document overrides the preferred cell widths to force the table to fit on the line next to the floating shape with tight wrapping.

However, if this compatibility setting's parameter is "1" then that table is not resized, so it cannot fit and must be pushed to the next full width line, resulting in the following output:

Meaning

This is some text.

This is some text.

This is some text.

\noindnmbrts

Use hanging indent (if any) as tab stop for bullets and numbering.

\felnbrelev

This control word specifies an alternate set of characters that may be used to determine that characters can begin or end a line when kinsoku line breaking rules are enabled.

Specifically, the following settings shall be used instead (for brevity, only those settings that are different than the default behavior of Microsoft Office Word 2007 are listed below):

Chinese (Simplified)

```
Cannot start a line:
```

```
!),.:;?]}¨·`¯-|″...:、。〃々〉》」』】〕〗!゛'),.:;?〕`|}~¢
```

Cannot end a line:

([$\{\cdot$ " \langle « 「 [[[(. [{£¥

Chinese (Traditional)

Cannot start a line:

Korean

Cannot end a line:

```
([\{£¥'" ⟨ 《 「 [ [ [ $ ( [ {₩
```

Example: Consider a line of text in a WordprocessingML document within a paragraph marked as Chinese (Simplified) that begins with a % symbol, as follows:

%..

Typically, the kinsoku settings for Chinese (Simplified) do not allow this character to begin a line, so the character before that symbol would be moved down onto this line:

[%..

However, if this compatibility setting is present, then the alternate kinsoku rules are in place, which do not prevent the % character from beginning the new line, resulting in the following output:

%..

Note: This control word is used to maintain compatibility with documents created by Microsoft Office Word 2003

\indrlsweleven

This control word specifies whether applications should ignore the presence of floating objects when calculating the starting position of paragraphs that are wrapped around floating objects defined using the Vector Mark-up Language (VML) syntax.

Typically a floating object on the same line or lines as a paragraph only affects the text when the floating object occurs where that text would normally be presented.

Example: Text at a 1" indentation would only be displaced by a floating object that appears at that position and not one that appears from 0" to 0.5" on the same line.

This control word specifies that floating objects shall always impact paragraphs on the same

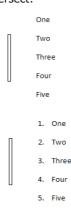
Meaning

line in two ways:

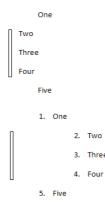
- 1. If the paragraph is not numbered, then it shall tightly wrap any floating object that precedes it on the same line, ignoring its own indentation settings.
 - Example: A paragraph with a 1" left indent shall tightly wrap a floating object that appears at only 0.25" on the same line.
- 2. If the paragraph is numbered, then it shall calculate and use its full indent relative to the edge of the floating object, not relative to the edge of the page.

Example: A numbered paragraph with a 1" left indent shall appear 1.5" into the page if it is preceded by a floating object that appears at 0.5" on the same line.

Example: Consider an RTF document with a narrow floating object at 0.5" on the page, surrounded by both numbered and unnumbered paragraphs. The default presentation would have no impact on the paragraphs based on that floating object, since the two do not intersect:



However if this control word is present, the two alternate rules defined above apply, resulting in the following output:



Note: This control word is used to maintain compatibility with documents created by Microsoft Office Word 2003.

\nocxsptable

This control word specifies whether the suppression of additional space (contextual spacing) shall be applied to paragraphs contained within tables.

Typically, the rules for the removal of additional paragraph spacing are applied to all paragraphs in an RTF document. This control word specifies that this setting shall always be ignored for paragraphs in table cells (and additional spacing shall be allowed).

Example: Consider an RTF document with a default paragraph style with additional spacing after and contextual spacing set:

The default presentation would have the spacing suppressed between all paragraphs, since

Meaning

they are all of the default paragraph style:

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

You can easily change the formatting of selected text in the document text by choosing a look for the selected text from the Quick Styles gallery on the Home tab. You can also format text directly by using the other controls on the Home tab. Most controls offer a choice of using the look from the current theme or using a format that you specify directly.

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

However, if this control word was present, then the paragraphs in the table will never have their spacing suppressed, resulting in the following output:

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

You can easily change the formatting of selected text in the document text by choosing a look for the selected text from the Quick Styles gallery on the Home tab. You can also format text directly by using the other controls on the Home tab. Most controls offer a choice of using the look from the current theme or using a format that you specify directly.

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

Note: This control word is used to maintain compatibility with documents created by Microsoft Office Word 2003.

\notcvasp

This control word specifies whether applications shall vertically align the contents of a table cell, even when the contents of that table cell include one or more floating objects defined using the Vector Mark-up Language syntax. Note that the floating object must be part of the cell, and not displayed over the cell due to its anchoring relative to another part of the document.

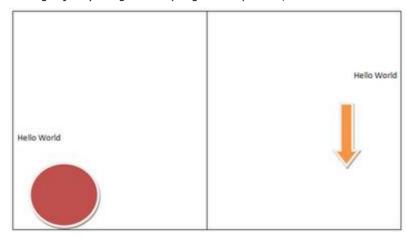
Typically, if the alignment of a table cell in an RTF document is specified, then the entire contents of that cell are aligned as specified [*Example*: The entire contents of the cell are centered vertically and moved right-aligned horizontally at that point. *End example*].

This control word specifies that whenever a floating object defined using VML is present in a table cell that no vertical alignment shall be applied to the contents of that cell, and the contents of the cell shall instead always be top aligned to the cell's contents.

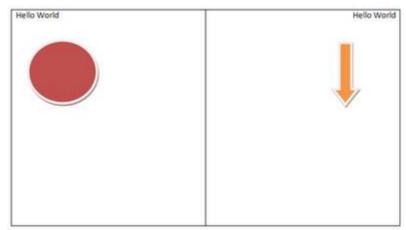
Example: Consider an RTF table with two cells, each containing some text and a single shape defined using the Vector Mark-up Language syntax. The first cell is vertically aligned to the bottom of the cell, and the second cell is vertically aligned to the center of the cell.

Meaning

The default presentation of this document results in each cell (including the extents of the floating objects) being vertically aligned as specified, as follows:



However, if this control word is present, then the presence of a floating object in each cell shall result in the vertical alignment setting being ignored (each vertical alignment shall be top-aligned relative to the cell), resulting in the following output:



Note: This control word is used to maintain compatibility with documents created by Microsoft Office Word 2003.

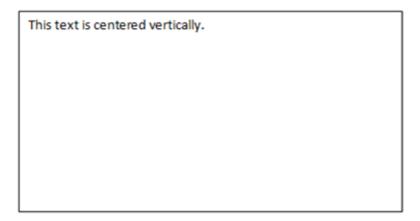
\notvatxbx

This control word specifies that vertical alignment within textboxes shall be ignored and instead the contents of the textbox shall always be top-aligned.

Example: Consider an RTF document with a single center-aligned text box:

This text is centered vertically.

If this control word is present, then the text shall always be top aligned, resulting in the following output:



Note: This control word is used to maintain compatibility with documents created by Microsoft Office Word 2003.

\spltpgpar

This control word specifies whether a page break shall automatically complete the line on which it appears, moving the end of the paragraph to a new line on the next page, or if it shall behave as true run-level content within its current paragraph.

Typically, a page break is treated as run-level content, which means that although it delimits the end of the page, if there is no content after it within the current paragraph that the paragraph shall also end on that page.

This control word specifies that a page break shall always immediately end the current page, moving the paragraph mark that delimits the end of its parent paragraph to a new line on the next page.

Note that this setting only affects the case where there is no run-level content after the page break within the paragraph – if any further run content appears in the paragraph it shall appear on subsequent lines on the next page.

Example: Consider an RTF document with two paragraphs of content – the first ending with a page break as rendered by Microsoft Office Word 2007.

Meaning



If this control word is present, then even though it is followed by no additional content, the page break shall immediately end the first page, pushing the end of the first paragraph onto the first line of the second page, resulting in the following output:



Note: This control word is used to maintain compatibility with documents created by Microsoft Office Word 2003.

This control word specifies whether applications should assume that all characters in the Hangul Syllables Unicode sub range (character values between 0xAC00 and 0xD7FF) are of a single fixed width or shall use the characters' widths defined by the font in use (typical for a proportional width font).

Typically, applications shall retrieve the character width for any character in a document from the associated font, allowing each character to be of its own width (a proportional width character).

This control word specifies that applications shall instead assume a single fixed width for all characters in the Hangul Syllables sub range, by reading the width of Unicode character 0x4E00 from the associated font and using that width for all Hangul characters (or, if that character is not present, the next available character in the font).

Example: Consider an RTF document with three Hangul characters:

곏곏걮

The default presentation would have each of those characters using the widths defined by the font (the highlighting indicates that each character has its own width):



However, if this control word is present, then all three characters are forced to the fixed width of character 0x4E00 from the font (or, in this case, the next available character), resulting in the characters in the font being forced to that fixed width, which results in the following output:

\hwelev

Meaning



Notice from the highlighting that the characters have been compressed to the width of the single character and displayed at that fixed width.

Note: This control word is used to maintain compatibility with documents created by Microsoft Office Word 2003.

\afelev

This control word specifies that when performing an AutoFit on a table in an RTF document to display it, applications shall alter that logic slightly to mimic the behavior of a previous word processing application. Specifically, if the width of a grid column in a table has been set by a preferred table cell width, then that column's width may be enlarged by the content of cells which themselves do not have a preferred width (in contrast, the normal logic never allows the content of cells to override a preferred width on a grid column).

\cachedcolbal

This control word specifies that cached paragraph information shall be used for column balancing. Specifically, this control word specifies that when a paragraph's lines have differing heights, an application shall treat this paragraph as though it had only one line equaling the full paragraph height, regardless of the actual number of lines in the paragraph.

Note: It is recommended that applications not intentionally replicate this behavior as it was deprecated due to issues with its output and is maintained only for compatibility with existing documents from a legacy application.

Typically, lines are correctly measured for their height when balancing columns as part of an RTF document. This control word specifies that applications shall perform the incorrect calculation in the conditions described above.

Note: This control word is used to maintain compatibility with documents created by Microsoft Office Word 2003.

\utinl

This control word specifies whether applications shall underline the character following the numbering defined when both the numbering itself and the first letter of the corresponding numbered paragraph are underlined.

Typically, the tab or space character generated between numbering and the corresponding paragraph of text is never formatted, since it is automatically generated. This control word specifies that the tab or space shall be underlined the same way as the numbering symbol itself in the following conditions:

The numbering is underlined

The first character of the paragraph is underlined

Example: Consider an RTF document with two numbered paragraphs: one with underlined text and the other without. The default presentation would have the tab characters free of underlining in both cases:

Example Text

Example Text

However, if this control word is present, then the second paragraph meets the criteria defined above for having the suffix character underlined, resulting in the following output:

Meaning

Example Text

Example Text

Note: This control word is used to maintain compatibility with documents created by Microsoft Office Word 2003.

\notbrkcnstfrctbl

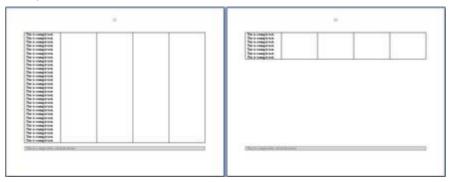
This control word specifies whether applications shall allow a table row to be split in two when its contents are displayed under the following circumstances:

The table row exceeds one page in height (it must be split across two pages)

The table row would need to be split to accommodate a floating table also on the page

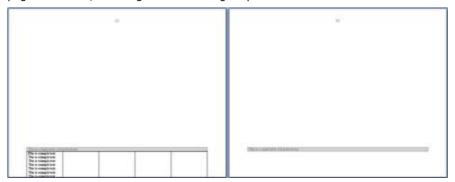
This control word, when present, specifies that table rows that exceed one page in height shall never be split around floating tables in the document, and shall instead be displayed on the first page below the floating table, even if that means that part of the table row is clipped by the edge of the page.

Example: Consider an RTF document with a long single table row that must be split across two separate pages in the document, to accommodate a floating table anchored in the footer, as follows:



The default presentation of this document forces that row to be split as needed around that floating table.

However, if this control word is present, then that table row is never split around the floating table, so it is always placed below that floating table on the page, and allowed to flow off the page as needed, resulting in the following output:



This example, while extreme, shows how the row is placed below the floating table, rather than breaking around it.

Note: This control word is used to maintain compatibility with documents created by Microsoft Office Word 2003.

Control word	Meaning	
\krnprsnet	This control word specifies whether applications shall use the ANSI or Unicode kerning pair information from fonts stored in the document when displaying those characters within the document's contents.	
	Typically, applications shall use the Unicode kerning pair information to determine all possible kerning pairs in the fonts in use. This control word, when present specifies that the ANSI kerning information shall be used instead.	
\usexform	This control word specifies that this document should be saved through the custom XSLT transform defined by the \xform control word in this document when it is saved as a single XML file (not defined by this specification).	
	Note: Because this setting specifies behavior when saving to an alternative file format not defined by this spec, this behavior is optional.	
	If this element is omitted, then this document should not be saved through a custom XSL transform when it is saved as a single XML file.	
Forms		
\formprot	This document is protected for forms.	
\allprot	This document has no unprotected areas.	
\formshade	This document has form field shading on.	
\formdisp	This document currently has a forms drop-down box or check box selected.	
\printdata	This document has print form data only on.	
Revision Marks		
\revprot	This document is protected for revisions. The user can edit the document, but revision marking cannot be disabled.	
\revisions	Turns on revision marking.	
\revprop <i>N</i>	Argument indicates how revised text will be displayed:	
	0 No properties shown	
	1 Bold	
	2 Italic	
	3 Underline (default)	
	4 Double underline	
\revbar/V	Vertical lines mark altered text, based on the argument:	
	0 No marking	
	1 Left margin	
	2 Right margin	
	Outside (the default: left on left pages, right on right pages)	
Write Protection (Document is Read-only)	
\readprot	This document is protected for editing, except in areas marked as exceptions by \protstart and \protend. This was introduced in Word 2003 and \annotprot is emitted with it for backward compatibility.	
Comment Protecti	on (Only Annotations are Editable)	
\annotprot	This document is protected for comments (annotations). The user cannot edit the document but can insert comments (annotations).	
Style and Formatt	ing Protection	
\stylelock	The document contains styles and formatting restrictions.	

\stylelockenforced

The styles and formatting restrictions are being enforced.

Control word	Meaning	
\stylelockbackcomp	Style lockdown backward compatibility flag, indicating we emitted protection keywords to ge documents with styles and formatting restrictions to behave in a reasonable way when opened by older versions.	
\autofmtoverride	Allow AutoFormat to override styles and formatting restrictions. When style protection is on the user cannot add direct formatting. This setting allows AutoFormat actions to apply direct formatting when needed.	
Style and Formatting	g Protection	
\enforceprot/V	Enforce protection. Assumes that a protection was specified (\annotprot, \readprot, \formprot, \revprot)	
\protlevel/V	Level of protection	
	0 Track Changes (\revprot is also emitted)	
	1 Comments (\annotprot also emitted)	
	2 Forms (\formprot also emitted)	
	Read-only (\readprot also emitted)	
Tables		
\tsd <i>N</i>	Sets the default table style for this document. \emph{N} references an entry in the table styles list.	
Bidirectional Contro	ls	
\rtldoc	This document will be formatted to have Arabic-style pagination.	
\ltrdoc	This document will have English-style pagination (the default).	
Click-and-Type		
\cts/V	Index to the style to be used for Click-and-Type (0 is the default).	
Kinsoku Characters	(Asia)	
\jsksu	Indicates that the strict Kinsoku set must be used for Japanese; \jsksu should not be present if \ksulangN is present and the language N is Japanese.	
\ksulang <i>N</i>	N indicates the language the customized Kinsoku characters defined in the \fchars and \lchars destinations belong to.	
*\fchars	List of following Kinsoku characters. This is a destination control word.	
*\lchars	List of leading Kinsoku characters. This is a destination control word.	
\nojkernpunct	Kerning for Latin text only, as opposed to Latin text and punctuation (Asian Typography option).	
Drawing Grid		
\dghspace <i>N</i>	Drawing grid horizontal spacing in twips (default is 120).	
\dgvspaceN	Drawing grid vertical spacing in twips (default is 120).	
\dghorigin <i>N</i>	Drawing grid horizontal origin in twips (default is 1701).	
\dgvorigin <i>N</i>	Drawing grid vertical origin in twips (default is 1984).	
\dghshow <i>N</i>	Show N th horizontal gridline (default is 3).	
\dgvshow <i>N</i>	Show N^{th} vertical gridline (default is 0).	
\dgsnap	Snap to drawing grid.	
\dgmargin	Drawing grid to follow margins.	
Page Borders		
\pgbrdrhead	Page border surrounds header.	

\pgbrdrfoot

Page border surrounds footer.

\pgbrdrt Page border top.
\pgbrdrb Page border bottom.
\pgbrdrl Page border left.
\pgbrdrr Page border right.

\brdrartN Page border art; the **N** argument is a value from 1 to 165 representing the number of the

border.

\pgbrdroptN has the bit fields:

bits 0-2 Apply to all pages in section (0), first page in section (1), all but first page in

section (2), whole document (3).

bit 3 Display in front (0), in back (1)

bit 5 Offset from text (0), from edge of page (1).

Examples:

Page border for all pages in section measures from text. Always display in front

option is set to **off**.

32 Page border for all pages in section measures from edge of page. Always display

in front option is set to on.

40 Page border for all pages in section measures from edge of page. **Always display**

in front option is set to off.

\pgbrdrsnap Align paragraph borders and table edges with page border.

The color, width, border style, and border spacing keywords for page borders are the same as the keywords defined for paragraph borders.

Mail Merge

Mail merge refers to an operation by which RTF documents work together with data from an external data source, importing the data into a document according to a set of codes that are contained in RTF tags that are also known as fields (\field).

An RTF document that contains the *\mailmerge control word is connected to an external data source. This document is known as a source document. In addition to being connected to an external data source and containing fields, a source document may contain any regular RTF constructs. These include the following:

- Character text
- Paragraphs
- Images
- Tables
- Lists

The two key parts of the mail merge data that are stored in an RTF document:

- The information that connects the document to the external data source
- The information that populates the fields in the document with external data

Once the fields in a mail merge document have been populated with external data, the mail merge process is complete. The resulting files are known as mail merged documents or merged documents.

The mail merge data contained within an RTF file has the following syntax:

```
'{\*' \mailmerge <mmmaintype> \mmlinktoquery? <mmdatatype> \mmdefaultsql?
<mailmerge>
                      (<mmconnectstrdata> | <mmconnectstr>)? <mmquery>? <mmdatasource>?
                      \mmblanklinks? <mmheadersource> <mmdest> <mmaddfieldname>? <mmmailsubject>?
                      \mmattach? \mmshowdata? \mmreccurN \mmerrorsN < mmodso>*
                      \mmodsocoldelimN \mmjdsotypeN \mmodsofhdrN <mmodsorecipdata>+ '}'
<mmmaintype>
                      \mmmaintypecatalog | \mmmaintypeenvelopes | \mmmaintypelabels |
                      \mmmaintypeletters | \mmmaintypeemail | \mmmaintypefax
<mmdatatype>
                      \mmdatatypeaccess | \mmdatatypeexcel | \mmdatatypeqt | \mmdatatypeodbc |
                      \mmdatatypeodso | \mmdatatypefile
<mmconnectstrdata>
                      '{' \mmconnectstrdata #SDATA '}'
                      '{' \mmconnectstr #PCDATA '}'
<mmconnectstr>
                      '{' \mmquery #PCDATA '}'
<mmquery>
                      '{' \mmdatasource #PCDATA '}'
<mmdatasource>
<mmheadersource>
                      '{' \mmheadersource #PCDATA '}'
                      \mmdestnewdoc | \mmdestprinter | \mmdestemail | \mmdestfax
<mmdest>
<mmaddfieldname>
                      '{' \mmaddfieldname #PCDATA '}'
<mmmailsubject>
                      '{' \mmmailsubject #PCDATA '}'
                      '{\*' \mmodso (<mmodsoudldata> | <mmodsoudl>)? <mmodsotable>? <mmodsosrc>?
<mmodso>
                      <mmodsofilter>? <mmodsosort>? <fldmpdata>? '}'
                      '{' \mmodsoudl #PCDATA '}'
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<mmodsoudldata>
                      '{' \mmodsoudldata #SDATA '}'
                      '{' \mmodsotable #PCDATA '}'
<mmodsotable>
                      '{' \mmodsosrc #PCDATA '}'
<mmodsosrc>
                      '{' \mmodsofilter #SDATA '}'
<mmodsofilter>
                      '{' \mmodsofilter #SDATA '}'
<mmodsosort>
                      '\\*' \mmodsofldmpdata <mmfttype>? <mmodsoname>? <mmodsomappedname>?
<fldmpdata>
                      \mmodsofmcolumnN \mmodsodynaddrN \mmodsolidN '}'
                      \mmfttypenull | \mmfttypedbcolumn | \mmfttypeaddress | \mmfttypesalutation |
<mmfttype>
                      \mmfttypemapped | \mmfttypebarcode
                      '{' \mmodsoname #PCDATA '}'
<mmodsoname>
                      '{' \mmodsomappedname #PCDATA '}'
<mmodsomappedname>
                      '{\*' \mmodsorecipdata \mmodsoactiveN <uniqueid> '}'
<mmodsorecipdata>
                      '{' \mmodsohashN | \mmodsocolumnN & <mmodsouniquetag> '}'
<uniqueid>
<mmodsouniquetag>
                      '{' \mmodsouniquetag #PCDATA ' }'
```

For example, consider the mail merge scenario in which an RTF document is connected to an external data source that is named "ExampleExternalDataSource.xls" and that is located on the user's desktop.

```
{\*\mailmerge\mmmaintypeletters\mmlinktoquery\mmdatatypeodso{\*\mmconnectstrdata #SDATA}{\mmquery SELECT * FROM `Sheet1$`}{\mmdatasource C:\\Documents and Settings\\Desktop\\ExampleExternalDataSource.xls}\mmdestnewdoc\mmreccurl\mmerrors2{\*\mmodso{\*\mmodso}}
```

```
oudldata #SDATA}{\mmodsotable Sheet1$}{\mmodsosrc C:\\Documents and
Settings\\ \ensured external DataSource.xls\\ \ensured external DataSource external Settings\\ \ensured external DataSource ext
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\label{lem:nodsomapped} Name { \nodsofmcolumn1\mmodsolid1033} {\nodsofldmpdata\mmodsofmcolumn-pdf} and the label of the 
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```

These control words are described in the following table.

Control word	Meaning
*\mailmerge	Specifies all the mail merge information for a document that has been connected to an external data source as part of a mail merge operation.
\mmlinktoquery	Specifies that the current RTF document's query string, stored in the <mmquery> control word and used to specify the data to be imported from the external data source, actually contains a reference to an external query file that contains the actual query data to be used against the specified external data source for the mail merge. This query shall mimic a STRUCTURED QUERY LANGUAGE query and be of the following form: SELECT * FROM <query file="" path="">.</query></mmquery>
	If this element is omitted, the query specified for the data source that is attached to the current document shall be assumed to not be a query that contains a link to an external file.
\mmdefaultsql	Specifies if a given merged RTF document shall prompt its conforming hosting application to use the default STRUCTURED QUERY LANGUAGE query string. The default STRUCTURED QUERY LANGUAGE query string for merged RTF documents is "SELECT * FROM < datasource>".
*\mmconnectstrdata	Specifies the hexadecimal-encoded connection string used to reconnect to an external data source.
*\mmconnectstr	Destination taking #PCDATA which has been replaced by \mmconnectstrdata because the connect string is very long and may be truncated.
\mmquery	Specifies the Structured Query Language string that shall be run against the specified external data source to return the set of records from the external data that shall be imported into merged RTF documents when the mail merge operation is performed. If this control word is omitted, no query shall be associated with the current data source.
\mmdatasource	Specifies the location of the external data source to be connected to a given RTF document.
\mmheadersource	Specifies the location of a file that contains the column header information that shall be used when connecting to an external data source that does not have column header data specified. Specifically, this control word specifies a file that corresponds with the external data source specified by the <mmdatasource> control word.</mmdatasource>
	Note: Column headers are needed to enable a hosting application to associate an external data source's columns to fields via the <mmodsofldmpdata> control word.</mmodsofldmpdata>
\mmblanklinks	Specifies how an application performing the mail merge shall handle blank lines in the merged documents resulting from the mail merge. Typically, when a mail merge is performed, any blank lines that result from lines whose sole contents are merge fields with no content are removed from the merged document to prevent extraneous blank lines from appearing in the merged documents. When this control word is present, the merged documents that are generated from the mail merge shall not have any blank lines removed before they are sent to their destination format.
	If this control word is omitted, the merged documents that are generated from this mail merge shall have all blank lines suppressed if they consist of only merge fields with values that consist of empty strings.
\mmaddfieldname	Specifies the column within a given external data source that contains e-mail addresses. This control word is specified independently of the field mappings specified for a given merged document via the <mmodsofldmpdata> control word.</mmodsofldmpdata>
	If this control word is omitted, or if no column exists in the data source with this column name, the source document specifies that no e-mail address data shall be associated with this mail merge.
	Note: This control word is generally used to allow you to send in e-mail merged documents resulting from populating the fields within a merged document with external data.
	If this control word is omitted, or if no column exists in the data source with this coluname, the source document specifies that no e-mail address data shall be associated this mail merge. Note: This control word is generally used to allow you to send in e-mail merged documents.

This control word is independent of the field mapping that is specified for a given merged document via the <mmodsofldmpdata> control word. This separation enables applications to e-mail the documents resulting from the population of RTF fields with external data

Control word	Meaning
	regardless of the presence or absence of a field mapped to external data specifying e-mail addresses.
\mmmailsubject	Specifies the text that shall appear in the subject line of the e-mail messages or faxes that result after the actions of a mail merge have imported external data into fields within a merged RTF document whose destination is e-mail or fax as specified by the <mmdestemail> or <mmdestfax> control words.</mmdestfax></mmdestemail>
	If this control word is omitted, no subject line text shall be associated with each merged document produced via a mail merge using the specified mail merge data. If the <mmdestemail> or <mmdestfax> control words are not used, this control word shall be ignored.</mmdestfax></mmdestemail>
\mmattach	Specifies that, after importing external data into fields to generate a series of destination RTF documents as e-mail messages, the resulting documents should be sent in e-mailed a an attachment rather than the body of the actual e-mail message.
	If the <mmdestemail> control word is not present, this control word shall be ignored.</mmdestemail>
\mmshowdata	Specifies that a specific merged document shall display the data from the specified external data source where merge fields have been inserted. The <mmreccur> control word is used to specify the record within the external data source that is to have its applicable data displayed where applicable within the RTF merged document.</mmreccur>
	If the <mmreccur> control word is not present in the RTF for the document leveraging this control word, the hosting application may behave as if the <mmreccur> control word's parameter was equal to 1.</mmreccur></mmreccur>
\mmreccur <i>N</i>	Specifies that the hosting application shall display the given record from the specified external data source in place of the fields to which its data is mapped via the <mmodsofldmpdata> control word in a merged document. When this control word is present, the parameter shall specify the one-based index of the record from that data source that shall be used to populate this document.</mmodsofldmpdata>
	If the <mmreccur> control word is omitted with the <mmshowdata> control word present the hosting application shall behave as if the <mmreccur> control word's parameter was equal to 1. If the <mmshowdata> control word is omitted, this control word shall be ignored. If the <mmreccur> control word's parameter is less than 1 or greater than the number of records in the specified external data source, the hosting application shall treat this parameter as if it were equal to 1.</mmreccur></mmshowdata></mmreccur></mmshowdata></mmreccur>
\mmerrors <i>N</i>	Specifies the type of error reporting that shall be conducted by an application when performing a mail merge against the specified source data.
	The type of error reporting implied by this control word shall be defined as follows:
	 Simulate the population of fields with mapped external data, and report errors in a new document if the parameter is equal to 1.
	 While populating fields with mapped external data pause to report each error as it occurs if the parameter is equal to 2.
	 Populate fields with mapped external data, and report errors in a new document if the parameter is equal to 3.
	• If this control word is omitted, or if its parameter is set to a parameter outside those specified above, its parameter shall be assumed to be 2.

Control word	Meaning
*\mmodso	Specifies a group of additional settings for the mail merge information included as part of the current document, the sum total of which is referred to as the Office Data Source Object (ODSO) settings for the mail merge.
	If the <mmdatatypeodso> control word is not used, the settings that are specified within this control word may be ignored in favor of their non-ODSO equivalents.</mmdatatypeodso>
*\mmodsoudldata	Specifies the Universal Data Link (UDL) connection string used to reconnect to an external data source. The destination specified by this control word shall contain the hexadecimal encoding of the connection string that the hosting application shall pass to a external data source access application to enable the RTF document to be reconnected to the specified external data source.
	If this destination is omitted, no UDL connection string shall be associated with the ODSO data for this mail merge. $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
	This connection string is only used under the following conditions:
	The <mmdatatypeodso> control word is used in the given RTF file.</mmdatatypeodso>
	The current application is able to use the ODSO information to access the data source.
*\mmodsoudl	Destination for #PCDATA replaced by \mmodsoudIdata because Universal Data Link (UDL) string is very long and suffers truncation
\mmodsotable	Specifies the particular set of data that a source or merged RTF document shall be connected to within an external data source that contains multiple data sets. In other words, when connecting an RTF document to an external data source that may have more than one repository of data within it, such as a database that has multiple tables or a spreadsheet that has multiple worksheets, this control word is used to distinguish the specific table or spreadsheet from which data will be imported from within the external data source.
\mmodsosrc	Specifies the location of the external data source to be connected to a given RTF document to perform the mail merge.
	This control word is used to specify the location of the external data source only under the following conditions:
	The <mmdatatypeodso> control word is used in the given RTF file.</mmdatatypeodso>
	• The current application is able to use the ODSO information to access the data source.
*\mmodsofilter	Specifies the data records within the external data source that are to be included within the mail merge.
	If the destination of this control word conflicts with the <mmodsoudldata> control word, the <mmodsoudldata> control word shall take precedence.</mmodsoudldata></mmodsoudldata>
*\mmodsosort	Specifies the order in which the data records within the external data source are to be included within the mail merge.
	If the destination of this control word conflicts with the <mmodsoudldata> control word, the <mmodsoudldata> control word shall take precedence.</mmodsoudldata></mmodsoudldata>
*\mmodsofldmpdata	Specifies how a column specified in the external data source that has been connected to an RTF document shall be mapped to the fields (\field) within the given merged document's contents. Each instance of an <mmodsofldmpdata> control word contains the information that is needed to map one column in the external data source to a single type of field for the purposes of the mail merge in the current document.</mmodsofldmpdata>

Control word	Meaning
\mmodsoname	Specifies the column name within a given external data source for the column whose index is specified via the <mmodsofmcolumn> control word. This data source name provides a column name that shall be used to map a specific field in the document, as specified by the <mmodsofldmpdata> control word. The parameter of this control word specifies the name of this column in the data source when the connection is initially established that is then used permanently to link columns in the database to fields in the document.</mmodsofldmpdata></mmodsofmcolumn>
	If this control word is omitted, no data source name is provided for the current column.
\mmodsomappedname	Specifies the predefined RTF field name that shall be mapped to the column number specified by the <mmodsofmcolumn> control word within an instance of the <mmodsofldmpdata>.</mmodsofldmpdata></mmodsofmcolumn>
	If the application does not have a predefined merge field whose name matches the name specified using the destination of this control word, this control word may be ignored.
\mmodsofmcolumn/V	Specifies the zero-based index of the column within a given external data source that shall be mapped to the local name of a specific MERGEFIELD field specified by the parent field mapping data. The parameter specifies this index value, which is used to look up the appropriate column in the data source.
	If this control word is omitted, or if its value exceeds the number of columns in the associated data source, the index of the referenced column shall be assumed to be 0.
\mmodsodynaddr <i>N</i>	Specifies that the contents of the AddressBlock field shall be dynamically ordered based on the country associated with the current record or if the country-invariant version of the address field shall be used in its place.
	If this control word is omitted, the form of the address shall be dynamically determined based on the country specified in the current record.
\mmodsolid <i>N</i>	Specifies the language ID (see <u>standard language table</u>) for the language that was used to generate the merge field name that was associated with a given column in the data source. This control word specifies that when this field mapping is processed by an application, it shall interpret the merge field name as the name for the specified language.
	If this control word is omitted, the mapped field names specified in the current document may be interpreted using any method desired by the consuming application. In other words, no language data is included with the field mapping information.
\mmodsocoldelim <i>N</i>	Specifies the character that shall be interpreted as the column delimiter used to separate columns within external data sources. The character representing the specific delimiter used for the external data source referenced by a source or merged RTF document is specified via a decimal number representing the decimal number for the Unicode character representation within this control word's parameter.
	If this control word is omitted, no column delimiter shall be specified for the data source in this mail merge.
\mmjdsotypeN	Specifies the type of external data source to be connected to as part of the ODSO connection information for this mail merge. This setting is purely a suggestion of the data source type that is being used for this mail merge. This setting may be ignored in favor of an alternative mechanism if one is present.
\mmodsofhdr <i>N</i>	Specifies that a hosting application shall treat the first row of data in the specified external data source as a header row containing the names of each column in the data source, rather than data to populate mapped fields in a merged document.
	If this control word is omitted, the first row of the data source shall not be considered a header row when a mail merge is performed.
*\mmodsorecipdata	Specifies all of the inclusion/exclusion data for the contents of the specified mail merge data source.

Control word	Meaning
\mmodsoactive <i>N</i>	Specifies whether a specific record from the specified external data source shall be imported into a merged RTF document when the mail merge defined for a source document is performed. If this control word's parameter is set to 0, the record specified by the parent control word shall not be used to create a merged document.
	If this control word is omitted for a given record, the data record associated with it shall be imported into a merged RTF document when the mail merge is performed.
\mmodsohash <i>N</i>	Specifies a unique hash value used to maintain a relationship between a specific record within an external data source and a given source or merged document.
\mmodsocolumn <i>N</i>	Specifies the column within the specified external data source that contains unique data for the current record within that data source. This control word shall be used in conjunction with the \mmodsouniquetag control word to maintain a relationship between a specific record within an external data source and a given source or merged document. The parameter of this control word shall be interpreted as a zero-based index into the columns specified by the data source, specifying the resulting column as the column in which the <mmodsouniquetag> control word shall be looked up.</mmodsouniquetag>
	If this control word specifies a column number that exceeds the number of columns in the specified external data source, its value shall be ignored.
\mmodsouniquetag	Destination for unique tag as described in the previous entry.

Mail Merge Field Map Data Type

The control words in the following table specify the data type of the mapped mail merge field.

Control word	Meaning
\mmfttypenull	Mail merge field map data type is null.
\mmfttypedbcolumn	Mail merge field map data type is database column.
\mmfttypeaddress	Mail merge field map data type is address block.
\mmfttypesalutation	Mail merge field map data type is salutation.
\mmfttypemapped	Mail merge field map data type is mapped.
\mmfttypebarcode	Mail merge field map data type is barcode.

Mail Merge Destination

This specifies the possible results that may be generated when a mail merge is carried out on a given RTF source document. In other words, this control word is used to specify what is to be done with the merged documents that result from populating the fields in a given merged RTF document with data from the specified external data source.

Control word	Meaning
\mmdestnewdoc	Specifies that conforming hosting applications shall generate new documents by populating the fields within a given merged RTF document with data from the specified external data source.
\mmdestprinter	Specifies that conforming hosting applications shall print the documents that result from populating the fields within a given merged RTF document with data from the specified external data source.
\mmdestemail	Specifies that conforming hosting applications shall generate emails using the documents that result from populating the fields within a given merged RTF document with data from the specified external data source.

Control word	Meaning
\mmdestfax	Specifies that conforming hosting applications shall generate faxes using the documents that result from populating the fields within a given merged RTF document with data from the specified external data source.

Mail Merge Source Document Types

This specifies the mail merge main document "document type."

Control word	Meaning
\mmmaintypecatalog	Specifies mail merge source document is of the catalog type.
\mmmaintypeenvelopes	Specifies mail merge source document is of the envelope type.
\mmmaintypelabels	Specifies mail merge source document is of the label type.
\mmmaintypeletters	Specifies mail merge source document is of the letter type.
\mmmaintypeemail	Specifies mail merge source document is of the e-mail message type.
\mmmaintypefax	Specifies mail merge source document is of the fax type.

Mail Merge Data Types

This specifies the possible values for the types of external data sources to be connected to via the Dynamic Data Exchange (DDE) system (such as a spreadsheet or a database) or the alternative method of data access if the Dynamic Data Exchange system is not used.

Control word	Meaning
\mmdatatypeaccess	Specifies that a given merged RTF document has been connected to a database via the Dynamic Data Exchange (DDE) system.
\mmdatatypeexcel	Specifies that a given merged RTF document has been connected to a database via the Dynamic Data Exchange (DDE) system.
\mmdatatypeqt	Specifies that a given merged RTF document has been connected to an external data source by using an external query tool.
\mmdatatypeodbc	Specifies that a given merged RTF document has been connected to an external data source via the Open Database Connectivity interface.
\mmdatatypeodso	Specifies that a given merged RTF document has been connected to an external data source via the Office Data Source Object (ODSO) interface.
\mmdatatypefile	Specifies that a given merged RTF document has been connected to a text file via the Dynamic Data Exchange (DDE) system.

Section Text

Each section in the RTF file has the following syntax:

<section> <secfmt>* <hdrftr>? <para>+ (\sect <section>)?

Section Formatting Properties

At the beginning of each section, there may be section-formatting control words (described as <secfmt> in the section text syntax description). These control words specify section-formatting properties, which apply to the text *following* the control word, with the exception of the section-

break control words (those beginning with **\sbk**). Section-break control words describe the break *preceding* the text. These control words can appear anywhere in the section, not just at the start.

Note that if the **\sectd** control word is not present, the current section inherits all section properties defined in the previous section.

The section-formatting control words are listed in the following table.

Control word	Meaning	
\sect	New section.	
\sectd	Reset to default section properties.	
\endnhere	Endnotes included in the section.	
\binfsxn <i>N</i>	\emph{N} is the printer bin used for the first page of the section. If this control is not defined, then the first page uses the same printer bin as defined by the \binsxnN control.	
\binsxn/V	${\it N}$ is the printer bin used for the pages of the section.	
\dsN	Designates section style. If a section style is specified, style properties must be specified with the section.	
\pnseclvl <i>N</i>	Used for multilevel lists. This property sets the default numbering style for each corresponding \pnlvIN control word (bullets and numbering property for paragraphs) within that section. This is a destination control word.	
\sectunlocked	This section is unlocked for forms.	
Section Break		
\sbknone	No section break.	
\sbkcol	Section break starts a new column.	
\sbkpage	Section break starts a new page (the default).	
\sbkeven	Section break starts at an even page.	
\sbkodd	Section break starts at an odd page.	
Columns		
\colsN	Number of columns for "snaking" (default is 1).	
\colsx <i>N</i>	Space between columns in twips (default is 720).	
\colno <i>N</i>	Column number to be formatted; used to specify formatting for variable-width columns.	
\colsr/V	Space to right of column in twips; used to specify formatting for variable-width columns.	
\colw/V	Width of column in twips; used to override the default constant width setting for variable-width columns.	
\linebetcol	Line between columns.	
Footnotes and Endnotes		

\sftntj Footnotes beneath text (top justified). \sftnbj Footnotes at the bottom of the page (bottom justified). \sftnstart/V Beginning footnote number (default is 1). \saftnstart/V Beginning endnote number (default is 1). \sftnrstpg Restart footnote numbering each page. \sftnrestart Footnote numbers restart at each section. Microsoft Word for the Macintosh uses this control to restart footnote numbering at each page. \sftnrstcont Continuous footnote numbering (the default). \saftnrestart Restart endnote numbering each section. \saftnrstcont Continuous endnote numbering (the default).

Control word	Meaning
\sftnnar	Footnote numbering—Arabic numbering (1, 2, 3,).
\sftnnalc	Footnote numbering—Alphabetical lowercase (a, b, c,).
\sftnnauc	Footnote numbering—Alphabetical uppercase (A, B, C,).
\sftnnrlc	Footnote numbering—Roman lowercase (i, ii, iii,).
\sftnnruc	Footnote numbering—Roman uppercase (I, II, III,).
\sftnnchi	Footnote numbering—Chicago Manual of Style (*, †, ‡, §).
\sftnnchosung	Footnote Korean numbering 1 (CHOSUNG).
\sftnncnum	Footnote Circle numbering (CIRCLENUM).
\sftnndbnum	Footnote kanji numbering without the digit character (DBNUM1).
\sftnndbnumd	Footnote kanji numbering with the digit character (DBNUM2).
\sftnndbnumt	Footnote kanji numbering 3 (DBNUM3).
\sftnndbnumk	Footnote kanji numbering 4 (DBNUM4).
\sftnndbar	Footnote double-byte numbering (DBCHAR).
\sftnnganada	Footnote Korean numbering 2 (GANADA).
\sftnngbnum	Footnote Chinese numbering 1 (GB1).
\sftnngbnumd	Footnote Chinese numbering 2 (GB2).
\sftnngbnuml	Footnote Chinese numbering 3 (GB3).
\sftnngbnumk	Footnote Chinese numbering 4 (GB4).
\sftnnzodiac	Footnote numbering—Chinese Zodiac numbering 1 (ZODIAC1). 甲・乙・丙…
\sftnnzodiacd	Footnote numbering—Chinese Zodiac numbering 2 (ZODIAC2). 子、丑、寅…
\sftnnzodiacl	Footnote numbering—Chinese Zodiac numbering 3 (ZODIAC3).
\saftnnar	Endnote numbering—Arabic numbering (1, 2, 3,).
\saftnnalc	Endnote numbering—Alphabetical lowercase (a, b, c,).
\saftnnauc	Endnote numbering—Alphabetical uppercase (A, B, C,).
\saftnnrlc	Endnote numbering—Roman lowercase (i, ii, iii,).
\saftnnruc	Endnote numbering—Roman uppercase (I, II, III,).
\saftnnchi	Endnote numbering—Chicago Manual of Style (*, †, ‡, §).
\saftnnchosung	Endnote Korean numbering 1 (CHOSUNG).
\saftnncnum	Endnote Circle numbering (CIRCLENUM).
\saftnndbnum	Endnote kanji numbering without the digit character (DBNUM1).
\saftnndbnumd	Endnote kanji numbering with the digit character (DBNUM2).
\saftnndbnumt	Endnote kanji numbering 3 (DBNUM3).
\saftnndbnumk	Endnote kanji numbering 4 (DBNUM4).
\saftnndbar	Endnote double-byte numbering (DBCHAR).
\saftnnganada	Endnote Korean numbering 2 (GANADA).
\saftnngbnum	Endnote Chinese numbering 1 (GB1).
\saftnngbnumd	Endnote Chinese numbering 2 (GB2).
\saftnngbnuml	Endnote Chinese numbering 3 (GB3).
\saftnngbnumk	Endnote Chinese numbering 4 (GB4).
\saftnnzodiac	Endnote numbering—Chinese Zodiac numbering 1 (ZODIAC1). 甲・乙・丙…
\saftnnzodiacd	Endnote numbering—Chinese Zodiac numbering 2 (ZODIAC2). 子、丑、寅…

Control word	Meaning
\saftnnzodiacl	Endnote numbering—Chinese Zodiac numbering 3 (ZODIAC3).
Line Numbering	
\linemod <i>N</i>	Line-number modulus amount to increase each line number (default is 1).
\linex/V	Distance from the line number to the left text margin in twips (default is 360). The automatic distance is 0.
\linestartsN	Beginning line number (default is 1).
\linerestart	Line numbers restart at \linestartsN value.
\lineppage	Line numbers restart on each page.
\linecont	Line numbers continue from the preceding section.
Page Information	
\pgwsxn/V	\emph{N} is the page width in twips. A \sectd resets the value to that specified by \paperwN in the document properties.
\pghsxn <i>N</i>	\emph{N} is the page height in twips. A \sectd resets the value to that specified by \paperhN in the document properties.
\marglsxn <i>N</i>	$\it N$ is the left margin of the page in twips. A \sectd resets the value to that specified by \margin in the document properties.
\margrsxn <i>N</i>	N is the right margin of the page in twips. A \sectd resets the value to that specified by \margrN in the document properties.
\margtsxn <i>N</i>	\emph{N} is the top margin of the page in twips. A \sectd resets the value to that specified by \margtN in the document properties.
\margbsxn <i>N</i>	\emph{N} is the bottom margin of the page in twips. A \sectd resets the value to that specified by \margbN in the document properties.
\guttersxn <i>N</i>	N is the width of the gutter margin for the section in twips. A \sectd resets the value to that specified by \gutterN from the document properties. If Facing Pages is turned off , the gutter is added to the left margin of all pages. If Facing Pages is turned on , the gutter is added to the left side of odd-numbered pages and the right side of even-numbered pages.
\margmirsxn	Switches margin definitions on left and right pages. Used in conjunction with \facingp.
\Indscpsxn	Page orientation is in landscape format. To mix portrait and landscape sections within a document, the \landscape control should not be used so that the default for a section is portrait, which may be overridden by the \lndscpsxn control.
\titlepg	First page has a special format.
\headeryN	Header is $\it N$ twips from the top of the page (default is 720).
\footery <i>N</i>	Footer is \mathbf{N} twips from the bottom of the page (default is 720).
Page Numbers	
\pgnstarts <i>N</i>	Beginning page number (default is 1).
\pgncont	Continuous page numbering (the default).
\pgnrestart	Page numbers restart at \pgnstarts value.
\pgnx/V	Page number is N twips from the right margin (default is 720). This control word is understood but not used by current versions (6.0 or later) of Word.
\pgny <i>N</i>	Page number is $\it N$ twips from the top margin (default is 720). This control word is understood but not used by current versions (6.0 or later) of Word.
\pgndec	Page-number format is decimal.
\pgnucrm	Page-number format is uppercase Roman numeral.
\pgnlcrm	Page-number format is lowercase Roman numeral.
\pgnucltr	Page-number format is uppercase letter (A, B, C,)
\pgnlcltr	Page-number format is lowercase letter (a, b, c,)

Control word	Meaning
\pgnbidia	Page-number format is Abjad Jawaz if language is Arabic and Biblical Standard if language is Hebrew.
\pgnbidib	Page-number format is Alif Ba Tah if language is Arabic and Non-standard Decimal if language is Hebrew.
\pgnchosung	Korean numbering 1 (CHOSUNG).
\pgncnum	Circle numbering (CIRCLENUM).
\pgndbnum	Kanji numbering without the digit character.
\pgndbnumd	Kanji numbering with the digit character.
\pgndbnumt	Kanji numbering 3 (DBNUM3).
\pgndbnumk	Kanji numbering 4 (DBNUM4).
\pgndecd	Double-byte decimal numbering.
\pgnganada	Korean numbering 2 (GANADA).
\pgngbnum	Chinese numbering 1 (GB1).
\pgngbnumd	Chinese numbering 2 (GB2).
\pgngbnuml	Chinese numbering 3 (GB3).
\pgngbnumk	Chinese numbering 4 (GB4).
\pgnzodiac	Chinese Zodiac numbering 1 (ZODIAC1).
\pgnzodiacd	Chinese Zodiac numbering 2 (ZODIAC2).
\pgnzodiacl	Chinese Zodiac numbering 3 (ZODIAC3).
\pgnhindia	Hindi vowel numeric format.
\pgnhindib	Hindi consonants.
\pgnhindic	Hindi digits.
\pgnhindid	Hindi descriptive (cardinal) text.
\pgnthaia	Thai letters.
\pgnthaib	Thai digits.
\pgnthaic	Thai descriptive.
\pgnvieta	Vietnamese descriptive.
\pgnid	Page number in dashes (Korean).
\pgnhn/V	Indicates the heading level that is used to prefix a heading number to the page number. This control word can only be used in conjunction with numbered heading styles. A 0 (zero) specifies to not show heading level (the default). Values 1 through 9 correspond to heading levels 1 through 9.
\pgnhnsh	Hyphen separator character. This separator and the successive ones appear between the heading level number and the page number.
\pgnhnsp	Period separator character.
\pgnhnsc	Colon separator character.
\pgnhnsm	Em dash (—) separator character.
\pgnhnsn	En dash (-) separator character.
Vertical Alignmer	nt
\vertal	Text is bottom-aligned. (Alias for \vertalb)

Text is bottom-aligned. (Alias for \vertalb) \vertal

\vertalt Text is top-aligned (the default).

\vertalb Text is bottom-aligned. Note: Word uses **\vertal**.

\vertalc Text is centered vertically.

Control word	Meaning
\vertalj	Text is justified vertically.
Revision Trackin	g
\srauth <i>N</i>	With revision tracking enabled, this control word identifies the author of changes to a section's properties. N refers to a value in the revision table.
\srdateN	With revision tracking enabled, this control word identifies the date of a revision (see Revision Marks for date/time format of N).

Bidirectional Controls

\rtlsect This section will snake (newspaper style) columns from right to left.

\ltrsect This section will snake (newspaper style) columns from left to right (the default).

Asian Controls

\horzsect Horizontal rendering. \vertsect Vertical rendering.

Text Flow

\stextflowN Section property for specifying text flow:

0 Text flows left to right and top to bottom

1 Text flows top to bottom and right to left, vertical

Text flows left to right and bottom to topText flows right to left and top to bottom

4 Text flows left to right and top to bottom, vertical

5 Text flows top to bottom and left to right, vertical (for Mongolian)

Page Borders

\pgbrdrhead Page border surrounds header.
\pgbrdrfoot Page border surrounds footer.
\pgbrdrt Page border top.

\pgbrdrb Page border bottom.
\pgbrdrl Page border left.
\pgbrdrr Page border right.

\brdrartN Page border art; the **N** argument is a value from 1 through 165 representing the number of the

border.

\pgbrdroptN 8 Page border measure from text. **Always display in front** option is set to **off**.

Page border measure from edge of page. **Always display in front** option is set to **on**.

Page border measure from edge of page. **Always display in front** option is set to **off**.

\pgbrdrsnap Align paragraph borders and table edges with page border.

Line and Character Grid

\sectexpandN Character space basement (character pitch minus font size) **N** in device-independent units (a

device-independent unit is 1/294912th of an inch).

\sectlinegridN Line grid, where N is the line pitch in 20ths of a point.

\sectdefaultcl Default state of section. Indicates \sectspecifyel and \sectspecifyel are not emitted.

\sectspecifycl Specify number of characters per line only.

\sectspecifyl Specify both number of characters per line and number of lines per page.

\sectspecifygenN Indicates that text should snap to the character grid. Note that the N is part of the keyword.

The color, width, border style, and border spacing keywords for page borders are the same as the keywords defined for paragraph borders.

Headers and Footers

Headers and footers are RTF destinations. Each section in the document can have its own set of headers and footers. If no headers or footers are defined for a given section, the headers and footers from the previous section (if any) are used. Headers and footers have the following syntax:

<hdrftr> '{' <hdrctl> <para>+ '}' <hdrftr>?

<hdrctl> \header | \footer | \header | \header | \footer | \footer | \footer |

Note: Each separate <hdrftr> group must have a distinct <hdrctl> introducing it.

Control word	Meaning
\header	Header on all pages. This is a destination control word.
\footer	Footer on all pages. This is a destination control word.
\headerl	Header on left pages only. This is a destination control word.
\headerr	Header on right pages only. This is a destination control word.
\headerf	Header on first page only. This is a destination control word.
\footerl	Footer on left pages only. This is a destination control word.
\footerr	Footer on right pages only. This is a destination control word.
\footerf	Footer on first page only. This is a destination control word.

Note: Prior to the Microsoft Word 2007, only the \footer keyword and/or the \header keyword wer written if the "facing pages" (\facingp) option was disabled. Additionally, only the \headerl and \headerr keywords for the left and right headers, respectively, were written if the \facingp option was enabled. With the release of the Microsoft Word 2007, the \headerl keyword and the \headerr keyword are always written. Additionally, the \headerr keyword is written as the header on every page if the \facingp option is disabled.

The \headerr, \headerr, \footerl, and \footerr control words are used in conjunction with the \facingp control word, and the \headerf and \footerf control words are used in conjunction with the \titlepg control word. Many RTF readers will not function correctly if the appropriate document properties are not set. In particular, if \facingp is not set, then only \header and \footer can be used, but \headerr and \footerr should be used if \header and \footer are missing. If \facingp is set, then only \headerl, \headerr, \footerl, and \footerr should be used. Combining both \facingp and \titlepg is allowed. You should not use \header to set the headers for both pages when \facingp is set. You can use \headerf if \titlepg is not set, but no header will appear. For more information, see \frac{Document Formatting}{Document Formatting} Properties and Section Formatting Properties in this Specification.

If the previous section had a first page header or footer and had **\titlepg** set, and the current section does not, then the previous section's first page header or footer is not used for the current section. However, it is not destroyed; if subsequent sections have **\titlepg** set, then the first page header or footer is restored.

Paragraph Text

There are two kinds of paragraphs: *plain* and *table*. A table is a collection of paragraphs. A table row is a contiguous series of paragraphs partitioned into cells. The **\intbl** control word marks

the paragraph as being part of a table. Additional keywords related to table styles are documented next, and refer to properties of the cell the paragraph resides within. For more information, see the <u>Table Definitions</u> section of this Specification. This control word is inherited by subsequent paragraphs not reset by the **\pard** control word.

Paragraph Formatting Properties

These control words (described as <parfmt> in the paragraph-text syntax description) specify generic paragraph formatting properties. These control words can appear anywhere in the body of the paragraph, not just at the beginning.

Note: If the **\pard** control word is not present, the current paragraph inherits all paragraph properties from the previous paragraph.

The paragraph-formatting control words are listed in the following table.

Control word	Meaning
\par	New paragraph.
\pard	Resets to default paragraph properties.
\spv	Style separator feature that causes the paragraph mark to not appear even in ShowAll. Used to nest paragraphs within the document view or outline without generating a new heading.
\hyphpar	Switches automatic hyphenation for the paragraph. Append 1 or nothing to toggle property on; append 0 to turn it off.
\intbl	Paragraph is part of a table.
\itap/V	Paragraph nesting level, where 0 is the main document, 1 is a table cell, 2 is a nested table cell, 3 is a doubly nested table cell, and so forth (default is 1).
\keep	Keep paragraph intact (completely on one page if possible).
\keepn	Keep paragraph with the next paragraph.
\level <i>N</i>	${\it N}$ is the outline level of the paragraph.
\noline	No line numbering.
\nowidctlpar	No widow/orphan control. This is a paragraph-level property and is used to override the document-level \widowctrl .
\widctlpar	Widow/orphan control is used for the current paragraph. This is a paragraph property used to override the absence of the document-level \widowctrl .
\outlinelevel/V	Outline level of paragraph. The N argument is a value from 0 to 8 representing the outline level of the paragraph. In the default case, no outline level is specified (same as body text).
\pagebb	Break page before the paragraph.
\sbys	Side-by-side paragraphs.
\sN	Designates paragraph style. If a paragraph style is specified, style properties must be specified with the paragraph. $\it N$ references an entry in the style sheet.

Table Style Specific

\ytsN Designates the table style handle that was applied to the row/cell.

Control word	Meaning
\tscfirstrow	This cell is in the first row.
\tsclastrow	This cell is in the last row.
\tscfirstcol	This cell is in the first column.
\tsclastcol	This cell is in the last column.
\tscbandhorzodd	This cell is in the odd row band.
\tscbandhorzeven	This cell is in the even row band.
\tscbandvertodd	This cell is in the odd column band.
\tscbandverteven	This cell is in the even column band.
\tscnwcell	This is the NW (north west) cell in the table (upper left).
\tscnecell	NE cell.
\tscswcell	SW cell.
\tscsecell	SE cell.
Alignment	
\qc	Centered.
\qj	Justified.
\qI	Left-aligned (the default).
\qr	Right-aligned.
\qd	Distributed.
\qkN	Percentage of line occupied by Kashida justification (0 – low, 10 – medium, 20 – high).
\qt	For Thai distributed justification.
Font Alignment	
\faauto	Font alignment. The default setting for this is "Auto."
\fahang	Font alignment: Hanging.
\facenter	Font alignment: Center.
\faroman	Font alignment: Roman (default).
\favar	Font alignment: Upholding variable.
\fafixed	Font alignment: Upholding fixed.
Indentation	
\fi <i>N</i>	First-line indent in twips (default is 0).
\cufi/V	First-line indent in hundredths of a character unit; overrides \fiN, although they should both be emitted with equivalent values.
\li/V	Left indent in twips (default is 0).
\lin <i>N</i>	Left indent for left-to-right paragraphs; right indent for right-to-left paragraphs (default is 0). \\lin\(\mathbf{N}\) defines space before the paragraph.
\culi/V	Left indent (space before) in hundredths of a character unit. Behaves like \\lin\(\mathbf{Iin\(\mathbf{N}\)}\) and overrides \\\lin\(\mathbf{Iin\(\mathbf{N}\)}\), although they should all be emitted with equivalent values.
\riN	Right indent in twips (default is 0).
\rin/V	Right indent for left-to-right paragraphs; left indent for right-to-left paragraphs (default is 0). \rinN defines space after the paragraph.
\curi/V	Right indent (space after) in hundredths of a character unit. Behaves like \rin\(\mathbf{r}\) and overrides \rin\(\mathbf{r}\) and \rin\(\mathbf{r}\), although they should all be emitted with equivalent values.
\adjustright	Automatically adjust right indent when document grid is defined.

Control word	Meaning
\indmirror	This control word specifies whether the paragraph indents should be interpreted as mirrored indents. When this control word is present, the left indent shall become the inside indent and the right indent shall become the outside indent.
	If this control word is specified for this paragraph, then the inside page edge is the right page edge for odd numbered pages and the left page edge for even numbered pages. Conversely, the outside page edge is the left page edge for odd numbered pages and the right page edge for even numbered pages.
	If this control word is omitted on a given paragraph, its value is determined by the setting previously set at any level of the style hierarchy (that is that previous setting remains unchanged). If this setting is never specified in the style hierarchy, then this property shall not be applied.
Spacing	
\sbN	Space before in twips (default is 0).
\sa <i>N</i>	Space after in twips (default is 0).
\sbautoN	Auto spacing before:
	O Space before determined by \sbN
	1 Space before is Auto (ignores \sbN)
	Default is 0.
\saauto/V	Auto spacing after:
\saN \sbautoN \saautoN	O Space after determined by \saN
	1 Space after is Auto (ignores \saN)
	Default is 0.
\lisb <i>N</i>	Space before in hundredths of a character unit. Overrides \slash , although they should both be emitted with equivalent values.
\lisa <i>N</i>	Space after in hundredths of a character unit. Overrides \slash , although they should both be emitted with equivalent values.
/NIa/	Space between lines. If this control word is missing or if $\S 10$ is used, the line spacing is automatically determined by the tallest character in the line. If N is a positive value, this size is used only if it is taller than the tallest character (otherwise, the tallest character is used); if N is a negative value, the absolute value of N is used, even if it is shorter than the tallest character.
\slmult/V	Line spacing multiple. Indicates that the current line spacing is a multiple of "Single" line spacing. This control word can follow only the \siN control word and works in conjunction with it.
	0 "At Least" or "Exactly" line spacing
	1 Multiple line spacing, relative to "Single"
\nosnaplinegrid	Disable snap line to grid.
\contextualspace	This control word specifies that any space specified before or after this paragraph should not be applied when the preceding and following paragraphs are of the same paragraph style, affecting the top and bottom spacing respectively.
	Example: This control word is typically used for paragraphs in lists, in which any space between subsequent list items, even if inherited from another style, is not desirable.
	If this control word is omitted on a given paragraph, its value is determined by the setting previously set at any level of the style hierarchy (that is that previous setting remains unchanged).
	If this setting is never specified in the style hierarchy, then spacing is not ignored. If it is present, then the spacing above or below on this paragraph is subtracted from the spacing that would have been present if contextual spacing was not applied, never going below zero.

Control word	Meaning
Subdocuments	
\subdocumentN	Indicates that a subdocument in a master document/subdocument relationship should occur here. N represents an index into the file table. This control word must be the only item in a paragraph.
Revision Tracking	9
\prauth/V	With revision tracking enabled, this control word identifies the author of changes to a paragraph's properties. <i>N</i> refers to a value in the revision table.
\prdate/V	With revision tracking enabled, this control word identifies the date of a revision (see Revision Marks for date/time format of N).

Bidirectional Controls

\rtlpar Text in this paragraph will display with right-to-left precedence.

\ltrpar Text in this paragraph will display with left-to-right precedence (the default).

Asian Typography

\nocwrap No character wrapping. \nowwrap No word wrapping.

\nooverflow No overflow period and comma.

\aspalpha Auto spacing between DBC and English.
\aspnum Auto spacing between DBC and numbers.

Pocket Word

\collapsed

Paragraph property active in outline view that specifies that the paragraph is collapsed (not viewed). \collapsed turns on collapsed and \collapsed0 turns it off.

Paragraphs Surrounding Text Box Wrapping

\txbxtwno

This control word specifies, for paragraphs in a text box, that no lines in the paragraph shall allow surrounding text to be tight wrapped to their extents and not the containing text box's extents

This element shall only be read for paragraphs that are contained within a text box.

If the parent text box does not meet the following three criteria, then this property has no effect:

- The text box wrapping must be set to 1 (shape property **WrapText** = 1)
- The text box border must not be set
- The text box shading must not be set

If this control word is omitted on a given paragraph, its value is determined by the setting previously set at any level of the style hierarchy (that is that previous setting remains unchanged).

If this setting is never specified in the style hierarchy, then paragraphs in a text box have no tight wrapping overrides, and text shall wrap to the extents of the text box.

\txbxtwalways

This control word specifies, for paragraphs in a text box, that all lines in the paragraph shall allow surrounding text to be tight wrapped to their extents and not the containing text box's extents.

This element shall only be read for paragraphs that are contained within a text box.

If the parent text box does not meet the following three criteria, then this property has no effect:

- The text box wrapping must be set to 1 (shape property **WrapText** = 1)
- The text box border must not be set
- The text box shading must not be set

If this control word is omitted on a given paragraph, its value is determined by the setting previously set at any level of the style hierarchy (that is that previous setting remains unchanged).

Control word

Meaning

If this setting is never specified in the style hierarchy, then paragraphs in a text box have no tight wrapping overrides, and text shall wrap to the extents of the text box.

\txbxtwfirstlast

This control word specifies, for paragraphs in a text box, that only the first and last lines in the paragraph shall allow surrounding text to be tight wrapped to their extents and not the containing text box's extents.

This element shall only be read for paragraphs that are contained within a text box.

If the parent text box does not meet the following three criteria, then this property has no effect:

- The text box wrapping must be set to 1 (shape property **WrapText** = 1)
- The text box border must not be set
- · The text box shading must not be set

If this control word is omitted on a given paragraph, its value is determined by the setting previously set at any level of the style hierarchy (that is that previous setting remains unchanged).

If this setting is never specified in the style hierarchy, then paragraphs in a text box have no tight wrapping overrides, and text shall wrap to the extents of the text box.

\txbxtwfirst

This control word specifies, for paragraphs in a text box, that only the first line in the paragraph shall allow surrounding text to be tight wrapped to their extents and not the containing text box's extents.

This element shall only be read for paragraphs that are contained within a text box.

If the parent text box does not meet the following three criteria, then this property has no effect:

- The text box wrapping must be set to 1 (shape property **WrapText** = 1)
- The text box border must not be set
- The text box shading must not be set

If this control word is omitted on a given paragraph, its value is determined by the setting previously set at any level of the style hierarchy (that is that previous setting remains unchanged).

If this setting is never specified in the style hierarchy, then paragraphs in a text box have no tight wrapping overrides, and text shall wrap to the extents of the text box.

\txbxtwlast

This control word specifies, for paragraphs in a text box, that only the last line in the paragraph shall allow surrounding text to be tight wrapped to their extents and not the containing text box's extents.

This element shall only be read for paragraphs that are contained within a text box.

If the parent text box does not meet the following three criteria, then this property has no effect:

- The text box wrapping must be set to 1 (shape property WrapText = 1)
- The text box border must not be set
- The text box shading must not be set

If this control word is omitted on a given paragraph, its value is determined by the setting previously set at any level of the style hierarchy (that is that previous setting remains unchanged).

If this setting is never specified in the style hierarchy, then paragraphs in a text box have no tight wrapping overrides, and text shall wrap to the extents of the text box.

Tabs

Any paragraph may have its own set of tabs. Tabs must follow this syntax:

<tabdef> (<tab> | <barranty)+
<tab> <tabkind>? <tablead>? \txN
<barranty
<tabkind> \tqr | \tqdec

<tablead> \tidot | \timdot | \tihyph | \tiul | \tith | \tieq

Control word	Meaning
\txN	Tab position in twips from the left margin.
\tqr	Flush-right tab.
\tqc	Centered tab.
\tqdec	Decimal tab.
\tbN	Bar tab position in twips from the left margin.
\tldot	Leader dots.
\tlmdot	Leader middle dots.
\tlhyph	Leader hyphens.
\tlul	Leader underline.
\tlth	Leader thick line.
\tleq	Leader equal sign.

Absolute Postion Tabs

The control words given by <reltomargin> and <reltoindent> below specify that an absolute position tab character be placed at the current location in the run content. An absolute position tab is a character that is used to advance the position on the current line of text when displaying RTF content independently of custom tab stops defined using the \tbN and \txN control words. The resulting end position of the tab character is not affected by the addition of custom tab stops or changes to the value of the \deftabN control word. Absolute position tabs are defined to be adjusted left, center, or right relative to either the starting (in LTR paragraphs, left) margin or the starting indent. They are useful in headers and footers.

If the alignment location specified by the positional tab cannot be found on the current line, because the starting location is past that point, then the tab character shall advance to that location on the next available line in the document.

The syntax for absolute position tabs is:

```
<ptab> '{' <ptableadding>? <relto> '}'
<ptableadding> \ptablnone | \ptabldot | \ptablminus | \ptabluscore | \ptablmdot
<relto> <reltomargin> | <reltoindent>
<reltoindend> \pindtabql | \pindtabqc | \pindtabqr
```

For example, here is the RTF specifying an absolute position "flush right" tab with leading dots between the left indent and the absolute tab:

{\ptabldot \pindtabqr}

Control word	Meaning
\ptablnone	Absolute position tab with a blank leading (default).
\ptabldot	Absolute position tab with a leading that uses period symbols ().
\ptablminus	Absolute position tab with a leading that uses minus symbols ().
\ptabluscore	Absolute position tab with a leading that uses underscore symbols ().
\ptablmdot	Absolute position tab with a leading that uses middle dot symbols (·····).
\pmartabql	Left absolute position tab relative to the margin.
\pmartabqc	Center absolute position tab relative to the margin.
\pmartabqr	Right absolute position tab relative to the margin.
\pindtabql	Left absolute position tab relative to indent.
\pindtabqc	Center absolute position tab relative to indent.
\pindtabqr	Right absolute position tab relative to indent.

Bullets and Numbering

Word 6.0 and Word 95 RTF

To provide compatibility with existing RTF readers, all applications that can automatically format paragraphs with bullets or numbers will also emit the generated text as plain text in the \pntext group. This allows existing RTF readers to capture the plain text and safely ignore the auto number instructions. This group precedes all bulleted or numbered paragraphs, and contains all the automatically generated text and formatting. It should precede the '{*' \pn ...'}' destination, and it is the responsibility of RTF readers that understand the '{*' \pn ... '}' destination to ignore the \pntext group. The following table defines the grammar of this group.

<pn></pn>	<pnseclvl> <pnpara></pnpara></pnseclvl>
<pnseclvl></pnseclvl>	'{*' \pnseclvIN <pndesc> '}'</pndesc>
<pnpara></pnpara>	<pntext> <pnprops></pnprops></pntext>
<pntext></pntext>	'{' \pntext <char> '}'</char>
<pnprops></pnprops>	'{*' \pn <pnlevel> <pndesc> '}'</pndesc></pnlevel>
<pnlevel></pnlevel>	\pnlvlN \pnlvlblt \pnlvlbody \pnlvlcont
<pndesc></pndesc>	<pnnstyle> & <pnchrfmt> & <pntxtb> & <pntxta> & <pnfmt></pnfmt></pntxta></pntxtb></pnchrfmt></pnnstyle>
<pnnstyle></pnnstyle>	\pncard \pndec \pnucltr \pnucrm \pnlcltr \pnlcrm \pnord \pnordt \pnbidia \pnbidib \pnaiu \pnaiud \pnaiueo \pnaiueod \pnchosung \pncnum \pndbnum \pndbnumt \pndbnum
<pnchrfmt></pnchrfmt>	\pndecd \pnganada \pngbnum \pngbnumk \pngbnumk \pngbnuml \pniroha \pnuldash \pnuldashd \pnuldashdd \pnulhair \pnulth \pnulwave \pnzodiacd \pnzodiacd \pnzodiacl \pnf? & \pnfs? & \pnh? & \pni? & \pni? & \pncaps? & \pnscaps? & \pnstrike? & \pncf?
<pnchrfmt> <pnul></pnul></pnchrfmt>	\pniroha \pnirohad \pnuldash \pnuldashd \pnulhair \pnulth \pnulwave \pnzodiac \pnzodiacl
·	\pniroha \pnirohad \pnuldash \pnuldashd \pnuldashdd \pnulhair \pnulth \pnulwave \pnzodiac \pnzodiacd \pnzodiacl \pnf? & \pnfs? & \pnh? & \pni? & \pncaps? & \pnscaps? & <pnul>? & \pnstrike? & \pncf?</pnul>
<pnul></pnul>	\pniroha \pnirohad \pnuldash \pnuldashd \pnuldashd \pnulhair \pnulth \pnulwave \pnzodiac \pnzodiacd \pnzodiacl \pnf? & \pnfs? & \pnfs? & \pnir? & \pncaps? & \pnscaps? & \pnul>? & \pnstrike? & \pncf? \pnul \pnuld \pnuldb \pnulnone \pnulw \pnumonce? & \pnacross? & \pnindent? & \pnsp? & \pnprev? & \cappiust>? & \pnindent? & \pnsp? & \pnprev? & \cappiust>? & \pnsp? & \pnsp
<pnul></pnul>	\pniroha \pnirohad \pnuldash \pnuldashd \pnuldashd \pnulhair \pnulth \pnulwave \pnzodiac \pnzodiacd \pnzodiacl \pnf? & \pnfs? & \pnhs? &

Settings in the following table marked with an asterisk can be turned off by appending 0 to the control word.

Control word	Meaning	
\pntext	This group precedes all numbered/bulleted paragraphs and contains all automatically generated text and formatting. It should precede the '{*' \pn '}' destination, and it is the responsibility of RTF readers that understand the '{*' \pn '}' destination to ignore this preceding group. This is a destination control word.	
\pn	Turns on paragraph numbering. This is a destination control word.	
\pnlvlN	Paragraph level, where N is a level from 1 to 9. Default set by \pnseclvIN section formatting property.	
\pnlvlblt	Bulleted paragraph (corresponds to level 11). The actual character used for the bullet is stored in the \pntxtb group.	
\pnlvlbody	Simple paragraph numbering (corresponds to level 10).	
\pnlvlcont	Continue numbering but do not display number ("skip numbering").	
\pnnumonce	Number each cell only once in a table (default is to number each paragraph in a table).	
\pnacross	Number across rows (default is to number down columns).	
\pnhang	Paragraph uses a hanging indent.	
\pnrestart	Restart numbering after each section break. Note that this control word is used only in conjunction with the Heading Numbering feature (applying multilevel numbering to Heading style definitions).	
\pncard	Cardinal numbering (One, Two, Three).	
\pndec	Decimal numbering (1, 2, 3).	
\pnucltr	Uppercase alphabetical numbering (A, B, C).	
\pnucrm	Uppercase Roman numbering (I, II, III).	
\pnlcltr	Lowercase alphabetical numbering (a, b, c).	
\pnlcrm	Lowercase Roman numbering (i, ii, iii).	
\pnord	Ordinal numbering (1 st , 2 nd , 3 rd).	
\pnordt	Ordinal text numbering (First, Second, Third).	
\pnbidia	Abjad Jawaz if language is Arabic and Biblical Standard if language is Hebrew.	
\pnbidib	Alif Ba Tah if language is Arabic and Non-standard Decimal if language is Hebrew.	
\pnaiu	46 phonetic katakana characters in "aiueo" order (AIUEO).	
\pnaiud	46 phonetic double-byte katakana characters (AIUEO DBCHAR).	
\pnaiueo	46 phonetic katakana characters in "aiueo" order (AIUEO).	
\pnaiueod	46 phonetic double-byte katakana characters (AIUEO DBCHAR).	
\pnchosung	Korean numbering 1 (CHOSUNG).	
\pncnum	20 numbered list in circle (CIRCLENUM).	
\pndbnum	Kanji numbering without the digit character (DBNUM1).	
\pndbnumd	Kanji numbering with the digit character (DBNUM2).	
\pndbnumk	Kanji numbering 4 (DBNUM4).	
\pndbnuml	Kanji numbering 3 (DBNUM3).	
\pndbnumt	Kanji numbering 3 (DBNUM3), alias for \pndbnuml	
\pndecd	Double-byte decimal numbering (Arabic DBCHAR).	
\pnganada	Korean numbering 2 (GANADA).	
\pngbnum	Chinese numbering 1 (GB1).	
-		

Control word	Meaning	
\pngbnumk	Chinese numbering 4 (GB4).	
\pngbnuml	Chinese numbering 3 (GB3).	
\pniroha	46 phonetic katakana characters in "iroha" order (IROHA).	
\pnirohad	46 phonetic double-byte katakana characters (IROHA DBCHAR).	
\pnzodiac	Chinese Zodiac numbering 1 (ZODIAC1).	
\pnzodiacd	Chinese Zodiac numbering 2 (ZODIAC2).	
\pnzodiacl	Chinese Zodiac numbering 3 (ZODIAC2). Chinese Zodiac numbering 3 (ZODIAC3).	
\pnb*	Bold numbering.	
\pni*	Italic numbering.	
\pncaps*	All caps numbering.	
\pnscaps*	Small caps numbering.	
\pnul*	Continuous underline.	
\pnuld*	Dotted underline.	
\pnuldash*	Dashed underline.	
\pnuldashd*	Dash-dotted underline.	
\pnuldashdd*	Dash-dot-dotted underline.	
\pnulhair*	Hairline underline.	
\pnulth*	Thick underline.	
\pnulwave*	Wave underline.	
\pnuldb*	Double underline.	
\pnulnone	Turns off any kind of underlining.	
\pnulw*	Word underline.	
\pnstrike*	Strikethrough numbering.	
\pncfN	Foreground color—index into color table (default is 0).	
\pnf/V	Font number.	
\pnfsN	Font size (in half-points).	
\pnindent/V	Minimum distance from margin to body text.	
\pnsp <i>N</i>	Distance from number text to body text.	
\pnprev	Used for multilevel lists. Include information from previous level in this level; for example, 1, 1.1, $1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.$	
\pnqc	Centered numbering.	
\pnql	Left-aligned numbering.	
\pnqr	Right-justified numbering.	
\pnstart/V	Start at number.	
*\pntxta	Text after. This group contains the text that follows the number. This is a destination control word.	
*\pntxtb	Text before. This group contains the text that precedes the number. This is a destination control word.	

Note: there is a limit of 32 characters total for the sum of text before, and text after, simple numbering. Multilevel numbering has a limit of 64 characters total for the sum of all levels.

Word 97 through Word 2007 RTF

Each paragraph that is part of a list must contain some keyword to indicate the list that it is in, and the level of the list it belongs to. Word 97 through Word 2007 also provide the flat text representation of each number (in the \listtext destination); so, RTF readers that do not understand Word 97 numbering will get the paragraph number, along with appropriate character properties, inserted into their document at the beginning of the paragraph. Any RTF reader that does understand Word 97 through Word 2007 numbering should ignore the entire \listtext destination.

Control word	Meaning
\lsN	Should exactly match the \lsN for one of the list overrides in the List Override table.
\ilvIN	The 0-based level of the list to which the paragraph belongs. For all simple lists, N should always be 0. For multilevel lists, it can be 0 through 8. The value 9 is never used. The values 10 through 12 have the special meanings for documents generated by Word 6: $10 = \text{ilvlBullet}$ (a bulleted paragraph in Word 6), $11 = \text{ilvlList}$ (a numbered paragraph in Word 6), $12 = \text{ilvlContinue}$ (a paragraph that was not itself numbered, but took its indenting scheme from its numbering properties and did not "break" numbering (that in Word 6 required otherwise contiguous paragraphs).
\listtext	Contains the flat text representation (<char>) of the number, including character properties. Should be ignored by any reader that understands Word 97 through Word 2007 numbering. This is a destination control word.</char>

Revision Marks for Paragraph Numbers and ListNum Fields

Paragraph numbers and ListNum fields track revision information with special properties applied to the paragraph mark and ListNum field, respectively. The special properties hold the "old" value of the number—the value it held when revision-mark tracking began. At display time, Word checks the number's current value and compares it with this "old" value to determine whether it has changed. If the numbers are different, the old value shows up as deleted and the new value as inserted. If the numbers are the same, Word displays the new value normally, with no revision information. If there is no old value, the new value shows up as inserted. The following table lists the RTF specifications for these special properties.

Control word	Meaning
\pnrauth <i>N</i>	Index into the revision table. The content of the $\it N$ th group in the revision table is considered to be the author of that revision.
	Note This keyword is used to indicate paragraph number revisions.
\pnrdate <i>N</i>	Time of the revision. The 32-bit DTTM structure is emitted as a long integer.
\pnrnot	Indicates whether the paragraph number for the current paragraph is marked as "inserted."
\pnrxst/V	The keywords \pnrxstN, \pnrrgbN, \pnrrpbrN, and \pnrnfcN describe the "deleted number" text for the paragraph number. Their values are binary. Each of these keywords is represented as an array. The deleted number is written out with a \pnrstartN keyword, followed by the array's keyword, followed by the first byte of the array, followed by the array's keyword, followed by the second byte of the array's keyword, followed by the array's keyword, followed by the third byte of the array's keyword, and so on. Some arrays contain 16-bit (32-bit) quantities, but each array keyword only takes a byte value, so two (four) array keywords are needed to represent a single quantity in these cases. This sequence is followed by the \pnrstopN keyword.
	\pnrxstN is a 32-item Unicode character array (two bytes for each character) with a length byte as the first number—it has the actual text of the number, with "level" place holders written out as digits from 0 through 8.
\pnrrgb <i>N</i>	Nine-item array of indices of the level place holders in the \pnrxstN array.

\pnrnfc/V	Nine-item array containing the number format codes of each level (using the same values as the \levelnfcN keyword). The number format code is represented as a short integer.
\pnrpnbr/V	Nine-item array of the actual values of the number in each level. The number is represented as a long integer.
\pnrstart/V	The \pnrxstN, \pnrrgbN, \pnrpnbrN, and \pnrnfcN arrays are each preceded by the \pnrstartN keyword, whose argument is 0 through 3, respectively, depending on the array.
\pnrstop <i>N</i>	The \pnrxstN, \pnrrgbN, \pnrpnbrN, and \pnrnfcN arrays are each terminated by the \pnrstopN keyword, whose argument is the number of bytes written out in the array.

Example: Let's take an example of the number "3-4b", which represents the third level of the list. The following table lists the values of each array.

Array	Binary	Comment
pnrxst	\'05\'00-\'01\'02.	The length of the string is 5. Then, first level (level 0), followed by a dash (character 45_{10}), followed by the second and third levels (levels 1 and 2), followed by a period (character 46_{10}).
pnrrgb	\'01\'03\'04	The level place holders are at indices 1, 3, and 4 in the string. The remaining six unused levels should be emitted as index 0 .
pnrnfc	\'00\'00\'04	The nfc values are Arabic (0) , Arabic (0) , and lowercase letter (4) . The remaining six unused nfc values should be emitted as 0 .
pnrpnbr	\'03\'04\'02	The numbers, i.e., 3, 4, and 2 (b). The remaining unused number values should be emitted as 0.

Here is the RTF for this number:

\pnrstart0

\pnrstart1

\pnrrgb1\pnrrgb3\pnrrgb4 \pnrrgb0\pnrrgb0\pnrrgb0 \pnrrgb0\pnrrgb0\pnrrgb0 \pnrstop9

\pnrstart2

\pnrnfc0\pnrnfc0\pnrnfc0\pnrnfc0\pnrnfc0\pnrnfc4 \pnrnfc0\pnrnfc0\pnrnfc0\pnrnfc0\pnrnfc0\pnrnfc0 \pnrnfc0\pnrnfc0\pnrnfc0\pnrnfc0\pnrnfc0 \pnrstop18

\pnrstart3

\pnrpnbr0\pnrpnbr0\pnrpnbr3
\pnrpnbr0\pnrpnbr0\pnrpnbr4
\pnrpnbr0\pnrpnbr0\pnrpnbr0\pnrpnbr2
\pnrpnbr0\pnrpnbr0\pnrpnbr0\pnrpnbr0
\pnrpnbr0\pnrpnbr0\pnrpnbr0\pnrpnbr0
\pnrpnbr0\pnrpnbr0\pnrpnbr0\pnrpnbr0
\pnrpnbr0\pnrpnbr0\pnrpnbr0\pnrpnbr0
\pnrpnbr0\pnrpnbr0\pnrpnbr0\pnrpnbr0
\pnrpnbr0\pnrpnbr0\pnrpnbr0\pnrpnbr0
\pnrpnbr0\pnrpnbr0\pnrpnbr0\pnrpnbr0
\pnrpnbr0\pnrpnbr0\pnrpnbr0\pnrpnbr0
\pnrpnbr0\pnrpnbr0\pnrpnbr0\pnrpnbr0

Control word	Meaning
Track Changes ((Revision Mark) Properties for ListNum Fields
\dfrauth <i>N</i>	Index into the revision table. The content of the $\it N^{th}$ group in the revision table is considered the author of that revision.
	Note This keyword is used to indicate the deleted value of a ListNum field.
\dfrdate <i>N</i>	Time of the revision. The 32-bit DTTM structure is emitted as a long integer.
\dfrxst <i>N</i>	Unicode character array with a length byte.
\dfrstart/V	The \dfrxstN array is preceded by the \dfrstartN keyword.
\dfrstop <i>N</i>	The \dfrxstN array is terminated by the \dfrstopN keyword.

Example: Let's look again at the preceding example, in which the deleted value is "3-4b." The RTF would then be

where 5 is the length byte, 51 is Unicode for "3", 45 is Unicode for "-", 52 is Unicode for "4".

Paragraph Borders

Paragraph borders have the following syntax:

agrapii boraci	5 Have the following Symaxi	
 brdrdef>	(<brdrseg> <brdr>)+</brdr></brdrseg>	
 brdrseg>	\brdrt \brdrb \brdrl \brdrr \brdrbtw \brdrbar \box	
<brd>></brd>	<brdrk> \brdrwN? \brspN? \brdrcfN?</brdrk>	
 	\brdrs \brdrth \brdrsh \brdrdb \brdrdot \brdrdash \brdrhair brdrinset \brdrdashsm \brdrdashd \brdrdashdot \brdrdashdotdot \brdrtriple \brdrtnthsg \brdrthtnsg \brdrtnthtnsg \brdrtnthtnsg \brdrtnthtnmg \brdrdashdotstr \brdremboss \brdrengrave \brdroutset \brdrnone \brdrtbl \brdrnil	

Control word	Meaning
\brdrt	Border top.
\brdrb	Border bottom.
\brdrl	Border left.
\brdrr	Border right.
\brdrbtw	Consecutive paragraphs with identical border formatting are considered part of a single group with the border information applying to the entire group. To have borders around individual paragraphs within the group, the \brdrbtw control must be specified for that paragraph.
\brdrbar	Border outside (right side of odd-numbered pages, left side of even-numbered pages).
\box	Border around the paragraph (box paragraph).
\brdrs	Single-thickness border.
\brdrth	Double-thickness border.
\brdrsh	Shadowed border.
\brdrdb	Double border.
\brdrdot	Dotted border.
\brdrdash	Dashed border.

Control word	Meaning	
\brdrhair	Hairline border.	
\brdrdashsm	Dashed border (small).	
\brdrdashd	Dot-dashed border.	
\brdrdashdd	Dot-dot-dashed border.	
\brdrdashdot	Dot-dashed border (alias for \brdrdashd read but not written by Word)	
\brdrdashdotdot	Dot-dot-dashed border (alias for \brdrdashdd read but not written by Word)	
\brdrinset	Inset border.	
\brdrnone	No border.	
\brdroutset	Outset border.	
\brdrtriple	Triple border.	
\brdrtnthsg	Thick-thin border (small).	
\brdrthtnsg	Thin-thick border (small).	
\brdrtnthtnsg	Thin-thick thin border (small).	
\brdrtnthmg	Thick-thin border (medium).	
\brdrthtnmg	Thin-thick border (medium).	
\brdrtnthtnmg	Thin-thick thin border (medium).	
\brdrtnthlg	Thick-thin border (large).	
\brdrthtnlg	Thin-thick border (large).	
\brdrtnthtnlg	Thin-thick-thin border (large).	
\brdrwavy	Wavy border.	
\brdrwavydb	Double wavy border.	
\brdrdashdotstr	Striped border.	
\brdremboss	Embossed border.	
\brdrengrave	Engraved border.	
\brdrframe	Border resembles a "Frame."	
\brdrw/V	N is the width in twips of the pen used to draw the paragraph border line. N cannot be greater than 255. To obtain a larger border width, the \brdrth control word can be used to obtain a width double that of N .	
\brdrcf/V	${\it N}$ is the color of the paragraph border, specified as an index into the color table in the RTF header.	
\brsp <i>N</i>	Space in twips between borders and the paragraph.	
\brdrnil	No border specified.	
\brdrtbl	Table cell has no borders.	

Paragraph Shading

Paragraph shading has the following syntax:

<shading></shading>	(\shadingN <pat>) \cfpatN? \cbpatN?</pat>
<pat></pat>	\bghoriz \bgvert \bgfdiag \bgbdiag \bgcross \bgdcross \bgdkhoriz \bgdkvert \bgdkfdiag \bgdkbdiag \bgdkcross \bgdkdcross

Control word	Meaning	
\shading <i>N</i>	N is the shading of the paragraph in hundredths of a percent.	
\bghoriz	Specifies a horizontal background pattern for the paragraph.	
\bgvert	Specifies a vertical background pattern for the paragraph.	
\bgfdiag	Specifies a forward diagonal background pattern for the paragraph (\\\).	
\bgbdiag	Specifies a backward diagonal background pattern for the paragraph (////).	
\bgcross	Specifies a cross background pattern for the paragraph.	
\bgdcross	Specifies a diagonal cross background pattern for the paragraph.	
\bgdkhoriz	Specifies a dark horizontal background pattern for the paragraph.	
\bgdkvert	Specifies a dark vertical background pattern for the paragraph.	
\bgdkfdiag	Specifies a dark forward diagonal background pattern for the paragraph (\\\\).	
\bgdkbdiag	Specifies a dark backward diagonal background pattern for the paragraph (////).	
\bgdkcross	Specifies a dark cross background pattern for the paragraph.	
\bgdkdcross	Specifies a dark diagonal cross background pattern for the paragraph.	
\cfpat <i>N</i>	${\it N}$ is the fill color, specified as an index into the document's color table.	
\cbpat <i>N</i>	${\it N}$ is the background color of the background pattern, specified as an index into the document's color table.	

Positioned Objects and Frames

The following paragraph-formatting control words specify the location of a paragraph on the page. Consecutive paragraphs with the same frame formatting are considered part of the same frame. For two framed paragraphs to appear at the same position on a page, they must be separated by a paragraph with different or no frame information.

Note: if any paragraph in a table row has any of these control words specified, then all paragraphs in the table row must have the same control words specified, either by inheriting the properties from the previous paragraph or by re-specifying the controls.

Paragraph positioning has the following syntax:

<apoctl></apoctl>	<pre><framesize> & <horzpos> & <vertpos> & <txtwrap> & <dropcap> & <txtflow> & \absnoovrlpN?</txtflow></dropcap></txtwrap></vertpos></horzpos></framesize></pre>
<framesize></framesize>	\abswN? & \abshN?
<horzpos></horzpos>	<hframe> & <hdist></hdist></hframe>
<vertpos></vertpos>	<vframe> & <vdist></vdist></vframe>
<txtwrap></txtwrap>	\nowrap? & \dxfrtextN? & \dfrmtxtxN? & \dfrmtxtyN? & <wrap>?</wrap>
<wrap></wrap>	\wrapdefault? \wraparound? \wraptight? \wrapthrough?
<dropcap></dropcap>	\dropcapli? & \dropcapt?
<hframe></hframe>	\phmrg? \phpg? \phcol?
<hdist></hdist>	<pre>\posxN? \posnegxN? \posxc? \posxi? \posxl? \posxr?</pre>
<vframe></vframe>	\pvmrg? \pvpg? \pvpara?
<vdist></vdist>	\posyN? \posnegyN? \posyt? \posyil? \posyb? \posyc? \posyin? \posyout? & \abslockN?
<txtflow></txtflow>	\frmtxlrtb \frmtxtbrl \frmtxbtlr \frmtxlrtbv \frmtxtbrlv

Control word	Meaning				
Frame Size					
\abswN	${\it N}$ is the width of the frame in twips.				
\absh <i>N</i>	N is the height of the frame in twips. A positive number indicates the minimum height of frame, and a negative number indicates the exact height of the frame. A value of zero incept that the height of the frame adjusts to the contents of the frame. This is the default for fruit where no height is given.				
Horizontal Posit	ion				
\phmrg	Use the margin as the horizontal reference frame.				
\phpg	Use the page as the horizontal reference frame.				
\phcol	Use the column as the horizontal reference frame. This is the default if no horizontal reference frame is given.				
\posx/V	Positions the frame ${\it N}$ twips from the left edge of the reference frame.				
\posnegx <i>N</i>	Same as \posxN but allows arbitrary negative values.				
\posxc	Centers the frame horizontally within the reference frame.				
\posxi	Positions the paragraph horizontally inside the reference frame.				
\posxo	Positions the paragraph horizontally outside the reference frame.				
\posxr	Positions the paragraph to the right within the reference frame.				
\posxl	Positions the paragraph to the left within the reference frame. This is the default if no horizon positioning information is given.				
Vertical Position	1				
\pvmrg	Positions the reference frame vertically relative to the margin. This is the default if no vertical frame positioning information is given.				
\pvpg	Positions the reference frame vertically relative to the page.				
\pvpara	Positions the reference frame vertically relative to the upper left corner of the next unframed paragraph in the RTF stream.				
\posyN	Positions the paragraph N twips from the top edge of the reference frame.				
\posnegyN	Same as \posyN but allows arbitrary negative values.				
\posyil	Positions paragraph vertically to be inline.				
\posyt	Positions paragraph at the top of the reference frame.				
\posyc	Centers paragraph vertically within the reference frame.				
\posyb	Positions paragraph at the bottom of the reference frame.				
\posyin	Positions paragraph vertically inside the reference frame.				
\posyout	Positions paragraph vertically outside the reference frame.				
\abslock <i>N</i>	Lock anchor:				
	0 Do not lock anchor (default).				
	1 Locks a frame anchor to the current paragraph that it is associated with.				
Text Wrapping					
\nowrap	Prevents text from flowing around the positioned object.				
\dxfrtext <i>N</i>	Distance in twips of a positioned paragraph from text in the main text flow in all directions.				
\dfrmtxtx/V	$m{N}$ is the horizontal distance in twips from text on both sides of the frame.				
\dfrmtxty <i>N</i>	${\it N}$ is the vertical distance in twips from text on both sides of the frame.				
\overlay	Text flows underneath frame.				

Control word	Meaning				
\wrapdefault	Specifies that text shall have the default application-defined behavior of the application displaying the RTF document with regard to the text wrapping displayed around the frame.				
\wraparound	Specifies that text shall be allowed to wrap around the remaining space on each line around this text frame in the document.				
\wraptight	Specifies that text shall be allowed to tightly wrap around the remaining space on each line around this text frame in the document.				
\wrapthrough	Specifies that text shall be allowed to wrap around the remaining space on each line around this text frame in the document.				
Drop Caps					
\dropcapli <i>N</i>	Number of lines drop cap is to occupy. The range is 1 through 10.				
\dropcapt/V	Type of drop cap:				
	1 In-text drop cap				
	2 Margin drop cap				
Overlap					
\absnoovrlp <i>N</i>	Allow overlap with other frames or objects with similar wrapping:				
	0 Allow overlap (default)				
	1 Do not allow overlap				
Text Flow					
\frmtxlrtb	Frame box flows from left to right and top to bottom (default).				
\frmtxtbrl	Frame box flows right to left and top to bottom.				
\frmtxbtlr	Frame box flows left to right and bottom to top.				
\frmtxlrtbv	Frame box flows left to right and top to bottom, vertical.				
\frmtxtbrlv	Frame box flows top to bottom and right to left, vertical.				

The following is an example of absolute-positioned text in a document:

\par \pard \pvpg\phpg\posxc\posyt\absw5040\dxfrtest173 First APO para

\par \pard \phmrq\posxo\posyc\dxfrtext1152 Second APO para

Table Definitions

There is no RTF table group; instead, tables are specified as paragraph properties. A table is represented as a sequence of table rows. A table row is a contiguous series of paragraphs partitioned into cells. The table row begins with the **\trowd** control word and ends with the **\row** control word. Every paragraph that is contained in a table row must have the **\intbl** control word specified or inherited from the previous paragraph. A cell may have more than one paragraph in it; the cell is terminated by a cell mark (the **\cell** control word), and the row is terminated by a row mark (the **\row** control word). Table rows can also be positioned. In this case, every paragraph in a table row must have the same positioning controls (see the <apoctl> controls on the <u>Positioned Objects and Frames</u> subsection of this Specification. Table properties may be inherited from the previous row; therefore, a series of table rows may be introduced by a single <tbloody>

the last of table is

the

An RTF table row has the following syntax, as shown in the general paragraph-text syntax shown in the <u>Paragraph Text</u> section of this Specification:

```
<row> (<tbldef> <cell>+ <tbldef> \row) | (<tbldef> <cell>+ \row) | (<cell>+ <tbldef> \row)
<cell> (<nestrow>? <tbldef>?) & <textpar>+ \cell
```

<nestrow> <nestcell>+ '{*' \nesttableprops <tbldef> \nestrow '}'

<nestcell> <textpar>+ \nestcell

Note: While Word 97 emitted the row properties (<tbldef>) at the beginning of the row, a reader should not assume that this is the case. Properties can be emitted at the end, and, in fact, Word 2002, Word 2003, and Word 2007 do this. To avoid breaking readers that might make the aforementioned assumption, Word 2002, Word 2003, and Word 2007 will write a copy at the beginning as well, so the properties of a typical row in a Word 2002, Word 2003, or Word 2007 document are repeated at the beginning and at the end of the row. Note that for nested cells, Word 2002, Word 2003, and Word 2007 write the properties at the end only.

A table definition has the following syntax:

	5 ,
<tbldef></tbldef>	\trowd \irowN \irowbandN \tsN \trgaphN & <rowjust>? & <rowwrite>? & <rowtop>? & <rowbot>? & <rowleft>? & <rowright>? & <rowhor>? & <rowvert>? & <rowpos> ? & \trleft? & \trrh? \trhdr? & \trkeep? & <rowwidth>? & <rowinv>? & \trautofit? & <rowspc>? & <rowpad>? & <rowspcout>? & \taprt!? <trrevision>? <tflags>? <celldef>+</celldef></tflags></trrevision></rowspcout></rowpad></rowspc></rowinv></rowwidth></rowpos></rowvert></rowhor></rowright></rowleft></rowbot></rowtop></rowwrite></rowjust>
<rowjust></rowjust>	\trql \trqr \trqc
<rowwrite></rowwrite>	\ltrrow \rtlrow
<rowtop></rowtop>	\trbrdrt <brdr></brdr>
<rowbot></rowbot>	\trbrdrb <brdr></brdr>
<rowleft></rowleft>	\trbrdrl <brdr></brdr>
<rowright></rowright>	\trbrdrr <brdr></brdr>
<rowhor></rowhor>	\trbrdrh <brdr></brdr>
<rowvert></rowvert>	\trbrdrv <brdr></brdr>
<rowpos></rowpos>	<pre><rowhorzpos> & <rowvertpos> & <rowwrap> & \tabsnoovrlp?</rowwrap></rowvertpos></rowhorzpos></pre>
<rowhorzpos></rowhorzpos>	<rowhframe>& <rowhdist></rowhdist></rowhframe>
<rowvertpos></rowvertpos>	<rowvframe>& <rowvdist></rowvdist></rowvframe>
<rowwrap></rowwrap>	\tdfrmtxtLeftN? & \tdfrmtxtRightN? & \tdfrmtxtTopN? & \tdfrmtxtBottomN?
<rowhframe></rowhframe>	\phmrg? \phpg? \phcol?
<rowhdist></rowhdist>	<pre>\tposxN? \tposnegxN? \tposxc? \tposxi? \tposxc? \tposxr?</pre>
<rowvframe></rowvframe>	\tpvmrg? \tpvpg? \tpvpara?
<rowvdist></rowvdist>	<pre>\tposyN? \tposye? \tposyil? \tposyb? \tposyc? \tposyin \tposyout</pre>
<rowwidth></rowwidth>	\trftsWidthN & \trwWidthN?
<rowinv></rowinv>	(\trftsWidthBN & \trwWidthBN?)? & (\trftsWidthAN & \trwWidthAN?)?
<rowspc></rowspc>	(\trspdIN & \trspdfIN?)? & (\trspdtN & \trspdftN?)? & (\trspdbN & \trspdfbN?)? & (\trspdfrN?)?
<rowpad></rowpad>	(\trpaddlN & \trpaddflN?)? & (\trpaddtN & \trpaddftN?)? & (\trpaddbN & \trpaddfbN?)? & (\trpaddrN & \trpaddfrN?)?
<rowspcout></rowspcout>	(\trspolN & \trspoflN?)? & (\trspotN & \trspoftN?)? & (\trspobN & \trspofbN?)? & (\trsporN & \trspofrN?)?
<rowpadout></rowpadout>	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:
<trrevision></trrevision>	\trauthN \trdateN

.LC	National and an O National and Control of National O National and O National and O National Advances of O
<tflags></tflags>	\tbllkborder & \tbllkshading & \tbllkfont & \tbllkcolor & \tbllkbestfit & \tbllkhdrrows & \tbllklastrow & \tbllkhdrcols & \tbllklastcol & \ tbllknorowband & \ tbllknocolband
<celldef></celldef>	(\clmgf? & \clmg? & \clvmrg? & \clvmrg? <celldgu>? & <celldgl>? & <celldign>? & <celldgn>? & <celldgn>? & <celldgn>? & <celldgn>? & <celldgn>? & <celldgn>? & <cellfow>? & <cellfow>? & <cellflow>? &</cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellflow></cellfow></cellfow></celldgn></celldgn></celldgn></celldgn></celldgn></celldgn></celldign></celldgl></celldgu>
<celldgu></celldgu>	\cldglu <brdr></brdr>
<celldgl></celldgl>	\cidgli <brdr></brdr>
<cellalign></cellalign>	\clvertalt \clvertalc \clvertalb
<celltop></celltop>	\clbrdrt <brdr></brdr>
<cellleft></cellleft>	\clbrdrl <brdr></brdr>
<cellbot></cellbot>	\clbrdrb <brdr></brdr>
<cellright></cellright>	\clbrdrr <brdr></brdr>
<cellshad></cellshad>	<cellpat>? \clcfpatN? & \clcbpatN? & \clshdngN</cellpat>
<cellpat></cellpat>	\clbghoriz \clbgvert \clbgfdiag \clbgbdiag \clbgcross \clbgdkross \clbgdkhor \clbgdkfdiag \clbgdkbdiag \clbgdkcross \clbgdkdcross
<cellflow></cellflow>	\citxirtb \citxtbri \citxbtir \citxirtbv \citxtbriv
<cellwidth></cellwidth>	\clftsWidthN & \clwWidthN? & \clhidemark?
<cellrev></cellrev>	\clmrgd \clmrgdr \ clsplit \clsplitr & <cellrevauth>? & <cellrevdate>?</cellrevdate></cellrevauth>
<cellrevauth></cellrevauth>	\clmrgdauthN
<cellrevdate></cellrevdate>	\clmrgddttm <i>N</i>
<cellins></cellins>	\clins & <cellinsauth>? & <cellinsdttm>?</cellinsdttm></cellinsauth>
<cellinsauth></cellinsauth>	\clinsauthN
<cellinsdttm></cellinsdttm>	\clinsdttmN
<celldel></celldel>	\cidel & <celldelauth>? & <celldeldttm>?</celldeldttm></celldelauth>
<celldelauth></celldelauth>	\cldelauthN
<celldeldttm></celldeldttm>	\cldeldttmN
<cellpad></cellpad>	(\clpadlN & \clpadflN?)? & (\clpadtN & \clpadftN?)? & (\clpadbN & \clpadfbN?)? & (\clpadrN & \clpadfrN?)?
<cellsp></cellsp>	$ \label{eq:clspfn} $$ \clspfiN?)? & (\clspfiN?)? & (\clspfiN?)? & (\clspfiN?)? & (\clspfiN?)? & (\clspfiN?)? \\$

Note: For <tbldef> the number of \cellxs must match the number of \cells in the \row. The following control words further define options for each row of the table.

Control word	Meaning	
\trowd	Sets table row defaults.	
\irow/V	N is the row index of this row.	
\irowband/V	${\it N}$ is the row index of the row, adjusted to account for header rows. A header row has a value of -1 .	
\row	Denotes the end of a row.	
\lastrow	Output if this is the last row in the table.	
\tcelld	Sets table cell defaults.	
\nestcell	Denotes the end of a nested cell.	
\nestrow	Denotes the end of a nested row.	
\nesttableprops	Defines the properties of a nested table. This is a destination control word.	

Control word	Meaning				
\nonesttables	Contains text (<char>) for readers that do not understand nested tables. This destination should be ignored by readers that support nested tables.</char>				
\trgaphN	Half the space between the cells of a table row in twips.				
\cellx/V	Defines the right boundary of a table cell, including its half of the space between cells.				
\cell	Denotes the end of a table cell.				
\clmgf	The first cell in a range of table cells to be merged.				
\clmrg	Contents of the table cell are merged with those of the preceding cell.				
\clvmgf	The first cell in a range of table cells to be vertically merged.				
\clvmrg	Contents of the table cell are vertically merged with those of the preceding cell.				
Table Row Revis	ion Tracking				
\trauthN	With revision tracking enabled, this control word identifies the author of changes to a table row's properties. <i>N</i> refers to a value in the revision table.				
\trdate/V	With revision tracking enabled, this control word identifies the date of a revision (see <u>Revision Marks</u> for date/time format of <i>N</i>).				
Autoformatting I	Flags				
\tbllkborder	Flag sets table autoformat to format borders.				
\tbllkshading	Flag sets table autoformat to affect shading.				
\tbllkfont	Flag sets table autoformat to affect font.				
\tbllkcolor	Flag sets table autoformat to affect color.				
\tbllkbestfit	Flag sets table autoformat to apply best fit.				
\tbllkhdrrows	Flag sets table autoformat to format the first (header) row.				
\tbllklastrow	Flag sets table autoformat to format the last row.				
\tbllkhdrcols	Flag sets table autoformat to format the first (header) column.				
\tbllklastcol	Flag sets table autoformat to format the last column.				
\tbllknorowband	Specifies row banding conditional formatting shall not be applied.				
\tbllknocolband	Specifies column banding conditional formatting shall not be applied.				
Row Formatting					
\taprtl	Table direction is right to left.				
\trautofit/V	AutoFit:				
	0 No AutoFit (default).				
	AutoFit is on for the row. Overridden by \clwWidthN and \trwWidthN in any table row.				
\trhdr	Table row header. This row should appear at the top of every page on which the current table appears.				
\trkeep	Keep table row together. This row cannot be split by a page break. This property is assumed to be off unless the control word is present.				
\trkeepfollow	Keep row in the same page as the following row.				
\trleft/V	Position in twips of the leftmost edge of the table with respect to the left edge of its column.				
\trqc	Centers a table row with respect to its containing column.				
\trql	Left-justifies a table row with respect to its containing column.				
\trqr	Right-justifies a table row with respect to its containing column.				
\trrh <i>N</i>	Height of a table row in twips. When 0, the height is sufficient for all the text in the line; when positive, the height is guaranteed to be at least the specified height; when negative, the absolut				

Control word	Meaning			
	value of the height is used, regardless of the height of the text in the line.			
\trpaddbN	Default bottom cell margin or padding for the row.			
\trpaddl <i>N</i>	Default left cell margin or padding for the row.			
\trpaddr <i>N</i>	Default right cell margin or padding for the row.			
\trpaddtN	Default top cell margin or padding for the row.			
\trpaddfb/V	Units for \trpaddbN:			
	0 Null. Ignore \trpaddbN in favor of \trgaphN (Word 97 style padding).			
	3 Twips.			
\trpaddfl <i>N</i>	Units for \trpaddlN:			
	0 Null. Ignore \trpaddlN in favor of \trgaphN (Word 97 style padding).			
	3 Twips.			
\trpaddfr/V	Units for \trpaddrN:			
	0 Null. Ignore \trpaddrN in favor of \trgaphN (Word 97 style padding).			
	3 Twips.			
\trpaddft/V	Units for \trpaddtN :			
	0 Null. Ignore \trpaddtN in favor of \trgaphN (Word 97 style padding).			
	3 Twips.			
\trspdbN	Default bottom cell spacing for the row. The total vertical spacing between adjacent cells is equal to the sum of \trspdtN from the bottom cell and \trspdbN from the top cell, both of which will have the same value when written by Word.			
\trspdI <i>N</i>	Default left cell spacing for the row. The total horizontal spacing between adjacent cells is equal to the sum of \trspdIN from the rightmost cell and \trspdrN from the leftmost cell, both of which will have the same value when written by Word.			
\trspdr <i>N</i>	Default right cell spacing for the row. The total horizontal spacing between adjacent cells is equato the sum of \trspdIN from the rightmost cell and \trspdrN from the leftmost cell, both of which will have the same value when written by Word.			
\trspdt <i>N</i>	Default top cell spacing for the row. The total vertical spacing between adjacent cells is equal to the sum of \trspdtN from the bottom cell and \trspdbN from the top cell, both of which will have the same value when written by Word.			
\trspdfb <i>N</i>	Units for \trspdbN :			
	0 Null. Ignore \trspdbN.			
	3 Twips.			
\trspdfl <i>N</i>	Units for \trspdIN :			
•	0 Null. Ignore \trspdIN.			
	3 Twips.			
\trspdfr/V	Units for \trspdrN :			
	0 Null. Ignore \trspdrN.			
	3 Twips.			
\trspdft/V	Units for \trspdtN :			
•	0 Null. Ignore \trspdtN.			
	3 Twips.			
\trpadob <i>N</i>	Default bottom cell margin or padding for the bottom row.			
\trpadolN	Default left cell margin or padding for the leftmost column.			
\trpador/V	Default right cell margin or padding for the rightmost column.			

\trpadotN \trpadofbN	Defau	ılt top cell margin or padding for the top row.
\trnadofhN		top con margin or padamig for the top con
(c. paac. 2	Units	for \trpadobN:
	0	Null. Ignore \trpadobN in favor of \trgaphN (Word 97 style padding).
	3	Twips.
\trpadofl <i>N</i>	Units	for \trpadolN:
	0	Null. Ignore \trpadolN in favor of \trgaphN (Word 97 style padding).
	3	Twips.
\trpadofr <i>N</i>	Units	for \trpadorN:
	0	Null. Ignore \trpadorN in favor of \trgaphN (Word 97 style padding).
	3	Twips.
\trpadoft <i>N</i>	Units	for \trpadotN:
	0	Null. Ignore \trpadotN in favor of \trgaphN (Word 97 style padding).
	3	Twips.
\trspob/V	Defau	ılt bottom cell spacing for the bottom row.
\trspol/V	Defau	ılt left cell spacing for the leftmost column.
\trsporN	Defau	ılt right cell spacing for the rightmost column
\trspot <i>N</i>	Defau	ılt top cell spacing for the top row.
\trspofb <i>N</i>	Units	for \trspobN:
	0	Null. Ignore \trspobN.
	3	Twips.
\trspofl <i>N</i>	Units	for \trspolN:
	0	Null. Ignore \trspolN.
	3	Twips.
\trspofr/V	Units	for \trsporN:
	0	Null. Ignore \trsporN.
	3	Twips.
\trspoft/V	Units	for \trspotN:
	0	Null. Ignore \trspotN.
	3	Twips.
\trwWidth/V	Prefe	rred row width. Overrides \trautofitN .
\trftsWidth/V	Units	for \trwWidthN:
	0	Null. Ignore \t in favor of \t (Word 97 style of determining cell and row width)
	1	Auto, no preferred row width, ignores \trwWidthN if present; \trwWidthN will generally not be written, giving precedence to row defaults and autofit.
	2	Percentage (in 50ths of a percent).
	3	Twips.
\trwWidthB <i>N</i>	Width of invisible cell at the beginning of the row. Used only in cases where rows have different widths.	
\trftsWidthBN	Units	for \trwWidthBN:
	^	Nedla National site is a state of the same
	0	Null. No invisible cell before.

Control word	Meaning				
	2 Percer	ntage (in 50ths of a percent).			
	3 Twips.				
\trwWidthAN	Width of invisible cell at the end of the row. Used only when rows have different widths.				
\trftsWidthAN	Units for \trwWidthAN :				
	0 Null. N	lo invisible cell after.			
	1 Auto,	ignores \trwWidthAN if prese	ent; \trwWidthAN will generally not be written.		
	2 Percer	ntage (in 50ths of a percent).			
	3 Twips.				
\tblind <i>N</i>	leading edge of	the current table in the docun right-to-left table). This indent	ifies the indentation that shall be added before the nent (the left edge in a left-to-right table, and the tation should shift the table into the text margin by		
	This value specified corresponds to the unit of measurement specified by the \tblindtypeN control word.				
	If this control w	ord is omitted, then its value s	shall be assumed to be 0.		
\tblindtypeN	This element, along with \tblindN specifies the indentation that shall be added before the leading edge of the current table in the document (the left edge in a left-to-right table, and the right edge in a right-to-left table). This indentation should shift the table into the text margin by the specified amount.				
	This control word specifies the units of measurement that shall be used in conjunction with the value of \tblindN . Any width value greater than 3 or less than 0 for this element shall be ignored.				
	If this attribute is omitted, then its value shall be assumed to be 1 (twentieths of a point).				
	Value Description				
	0 – auto (Auto	omatically Determined Width)	Specifies that the value for the measurement of the current table width property in the parent table shall be automatically determined by the table layout algorithm when the table is displayed (this width can be adjusted as appropriate).		
			If this value is inappropriate for the current measurement (that is this measurement is not affected by that algorithm), then this type and the associated value may be ignored.		
	1 – dxa (Widt	h in Twentieths of a Point)	Specifies that the value for the measurement of the current table width property in the parent table shall be interpreted as twentieths of a point (1/1440 of an inch).		
	2 – nil (No Wi	dth)	Specifies that the current width is zero, regardless of any width value specified on the parent element.		
	3 – pct (Width	n in Fiftieths of a Percent)	Specifies that the value for the measurement of the current table width property in the parent table shall be interpreted as fiftieths of a percent.		
			If this value is inappropriate for the current measurement (that is this measurement is not part of the width of the table), then this type and the associated value may be ignored.		

Control word	Meaning		
Row Shading an	nd Background Color		
\trcbpat/V	Background pattern color for the table row shading.		
\trcfpat/V	Foreground pattern color for the table row shading.		
\trpat/V	Pattern for table row shading.		
\trshdng <i>N</i>	Percentage shading for table row shading.		
\trbgbdiag	Backward diagonal pattern.		
\trbgcross	Cross pattern.		
\trbgdcross	Diagonal cross pattern.		
\trbgdkbdiag	Dark backward diagonal pattern.		
\trbgdkcross	Dark cross pattern.		
\trbgdkdcross	Dark diagonal cross pattern.		
\trbgdkfdiag	Dark forward diagonal pattern.		
\trbgdkhor	Dark horizontal pattern.		
\trbgdkvert	Dark vertical pattern.		
\trbgfdiag	Forward diagonal pattern.		
\trbghoriz	Horizontal pattern.		
\trbgvert	Vertical pattern.		
Cell Formatting			
\clFitText	Fit text in cell, compressing each paragraph to the width of the cell.		
\clNoWrap	Do not wrap text for the cell. Only has an effect if the table cell does not have a preferred \clwWidthN, which overrides \trautofitN.		
\clpadl <i>N</i>	Left cell margin or padding. Overrides \trpaddlN.		
\clpadt/V	Top cell margin or padding. Overrides \trpaddtN.		
\clpadbN	Bottom cell margin or padding. Overrides \trpaddbN.		
\clpadr/V	Right cell margin or padding. Overrides \trpaddrN .		
\clpadfl <i>N</i>	Units for \cipadiN:		
	0 Null. Ignore \clpadl in favor of \trgaphN (Word 97 style cell padding).		
	3 Twips.		
\clpadft/V	Units for \clpadtN:		
	0 Null. Ignore \clpadt in favor of \trgaphN (Word 97 style cell padding).		
	3 Twips.		
\clpadfb/V	Units for \clpadbN:		
	0 Null. Ignore \clpadb in favor of \trgaphN (Word 97 style cell padding).		
	3 Twips.		
\clpadfr/V	Units for \clpadrN:		
	0 Null. Ignore \clpadr in favor of \trgaphN (Word 97 style cell padding).		
	3 Twips.		
\clspl <i>N</i>	Left cell margin or padding. Overrides \trspdIN.		
\clspt/V	Top cell margin or padding. Overrides \trspdtN.		
\clspb <i>N</i>	Bottom cell margin or padding. Overrides \trspdbN.		
\clspr/V	Right cell margin or padding. Overrides \trspdrN.		

Control word	d Meaning			
\clspfl/V	Units for \clsplN:			
	0	Null. Ignore \cispl.		
	3	Twips.		
\clspft <i>N</i>	Units	for \clsptN:		
	0	Null. Ignore \clspt.		
	3	Twips.		
\clspfb <i>N</i>	Units	for \clspbN:		
	0	Null. Ignore \clspb.		
	3	Twips.		
\clspfr <i>N</i>	Units for \clsprN:			
	0	Null. Ignore \clspr.		
	3	Twips.		
\clwWidth/V	Prefe	Preferred cell width. Overrides \trautofitN .		
\clftsWidth <i>N</i>	Units for \clwWidthN:			
	0	Null. Ignore $\c \c \$		
	1	Auto, no preferred cell width, ignores \clwWidthN if present; \clwWidthN will generally not be written, giving precedence to row defaults.		
	2	Percentage (in 50ths of a percent).		
	3	Twips.		
\clhidemark	This control word specifies whether the end of cell glyph shall influence the height of the given table row in the table. If it is specified, then only printing characters in this cell shall be used to			

determine the row height.

Note: Typically, the height of a table row is determined by the height of all glyphs in all cells in that row, including the non-printing end of cell glyph characters. However, if these characters are not formatted, they are always created with the document default style properties. This means that the height of a table row cannot ever be reduced below the size of the end of cell marker glyph without manually formatting each paragraph in that run.

In a typical document, this behavior is desirable as it prevents table rows from 'disappearing' if they have no content. However, if a table row is being used as a border (for example, by shading its cells or putting an image in them), then this behavior makes it impossible to have a virtual border that is reasonably small without formatting each cell's content directly. This setting specifies that the end of cell glyph shall be ignored for this cell, allowing it to collapse to the height of its contents without formatting each cell's end of cell marker, which would have the side effect of formatting any text ever entered into that cell.

If this control word is omitted, then the end of cell marker shall be included in the determination of the height of this row.

Example: Consider the following RTF table:

Here is some small text.		

Notice that the only printing content in this table row is displayed using 5 point font, yet the row height is influenced by the end of cell markers in the empty cells.

If each cell in the second row in this table was set to exclude the table cell from this calculation, using the following RTF: \clhidemark, the resulting table shall exclude the cell markers from the row height calculation:

	Hore is some but			
	This is active soles			
	The \clhidemark control word specified that each cell marker was excluded, resulting in the reheight being defined by the actual run contents.			
Compared Table	Cells			
\clins	Table cell should be treated as though it was inserted into the 'compared document' that resulte from a document compare.			
\cldel	Table cell should be treated as though it was deleted from the 'compared document' that resulte from a document compare. This means that although the table cell control word exists in the structure of the table, the table cell technically no longer exists in the document.			
\clmrgd	Specifies vertical merge setting that was applied to the given table cell during a document compare; specifically, that this cell was merged with the cell above it in the 'compared document'.			
\clmrgdr	Specifies vertical merge setting that was applied to the given table cell during a document compare; specifically, that this cell was merged with the cell below it in the 'compared documen			
\clsplit	Specifies vertical merge setting that was applied to the given table cell during a document compare; specifically, that this cell was split from the cell above it in the 'compared document'.			
\clsplitr	Specifies vertical merge setting that was applied to the given table cell during a document compare; specifically, that this cell was split with the cell below it in the 'compared document'.			
\clinsauth/V	Specifies author for a table cell insertion (\clins) within an RTF document.			
	If this control word is omitted, then no author shall be associated with the annotation.			
\clinsdttm/V	Specifies date information for a table cell insertion (\clins) within an RTF document.			
	If this control word is omitted, then no date information shall be associated with the annotation.			
\cldelauth <i>N</i>	Specifies author for a table cell deletion (\cldel) within an RTF document.			
	If this control word is omitted, then no author shall be associated with the annotation.			
\cldeldttm/V	Specifies date information for a table cell deletion (\cldel) within an RTF document.			
	If this control word is omitted, then no date information shall be associated with the annotation			
\clmrgdauth <i>N</i>	Specifies author for a table cell merge (\clmrgd, \clmrgdr, \clsplit, \clsplitr) within an RTI document.			
\clmrgddttmN	If this control word is omitted, then no author information shall be associated with the annotation.			
	Specifies date information for a table cell merge (\clmrgd, \clmrgdr, \clsplit, \clsplitr) wit an RTF document.			
	If this control word is omitted, then no date information shall be associated with the annotation			
Positioned Wrap	ped Tables (The following properties must be the same for all rows in the table)			
\tdfrmtxtLeft <i>N</i>	Distance in twips, between the left of the table and surrounding text (default is 0).			
\tdfrmtxtRight/V	Distance in twips, between the right of the table and surrounding text (default is 0).			
\tdfrmtxtTop <i>N</i>	Distance in twips, between the top of the table and surrounding text (default is 0).			
\tdfrmtxtBottom/V	Distance in twips, between the bottom of the table and surrounding text (default is 0).			
\tabsnoovrlp	Do not allow table to overlap with other tables or shapes with similar wrapping not contained within it.			

Use column as horizontal reference frame. This is the default if no horizontal table positioning

Use margin as horizontal reference frame.

information is given.

\tphcol

\tphmrg

Use page as horizontal reference frame. Same as \tposxN but allows arbitrary negative values. Same as \tposyN but allows arbitrary negative values. Position table N twips from the left edge of the horizontal reference frame.
Same as \tposyN but allows arbitrary negative values.
Position table N twins from the left edge of the horizontal reference frame
resident date is twips from the left edge of the horizontal reference frame.
Center table within the horizontal reference frame.
Position table inside the horizontal reference frame.
Position table at the left of the horizontal reference frame.
Position table outside the horizontal reference frame.
Position table at the right of the horizontal reference frame.
Position table ${\it N}$ twips from the top edge of the vertical reference frame.
Position table at the bottom of the vertical reference frame.
Center table within the vertical reference frame
Position table to be inline.
Position table inside within the vertical reference frame.
Position table outside within the vertical reference frame.
Position table at the top of the vertical reference frame.
Position table vertically relative to the top margin. This is the default if no vertical table positioning information is given.
Position table vertically relative to the upper left corner of the next unframed paragraph in the stream.
Position table vertically relative to the top of the page.
trols
Cells in this table row will have right-to-left precedence.
Cells in this table row will have left-to-right precedence (the default).
Table row border top.
Table row border left.
Table row border bottom.
Table row border right.
Table row border horizontal (inside).
Table row border vertical (inside).
No border specified.
Bottom table cell border.
Top table cell border.
Left table cell border.
Right table cell border.
<u> </u>
Diagonal line (upper left to lower right). Diagonal line (upper right to lower left).

\clshdrawnil

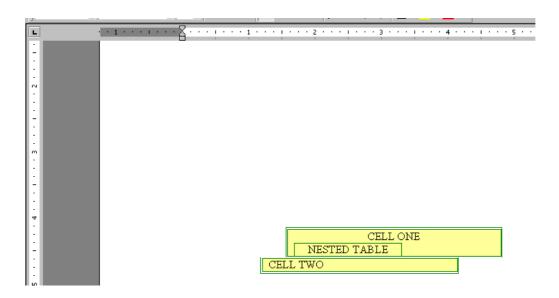
No shading specified.

Control word	Meaning
\clshdng <i>N</i>	$\it N$ is the shading of a table cell in hundredths of a percent. This control should be included in RTF along with cell border information.
\clshdngraw/V	Same as \clshdngN for use with table styles.
\clbghoriz	Specifies a horizontal background pattern for the cell.
\rawclbghoriz	Same as \clbghoriz for use with table styles.
\clbgvert	Specifies a vertical background pattern for the cell.
\rawclbgvert	Same as \clbgvert for use with table styles.
\clbgfdiag	Specifies a forward diagonal background pattern for the cell (\\\\).
\rawclbgfdiag	Same as \clbgfdiag for use with table styles.
\clbgbdiag	Specifies a backward diagonal background pattern for the cell (////).
\rawclbgbdiag	Same as \clbgbdiag for use with table styles.
\clbgcross	Specifies a cross background pattern for the cell.
\rawclbgcross	Same as \clbgcross for use with table styles.
\clbgdcross	Specifies a diagonal cross background pattern for the cell.
\rawclbgdcross	Same as \clbgdcross for use with table styles.
\clbgdkhor	Specifies a dark horizontal background pattern for the cell.
\rawclbgdkhor	Same as \clbgdkhor for use with table styles.
\clbgdkvert	Specifies a dark vertical background pattern for the cell.
\rawclbgdkvert	Same as \clbgdkvert for use with table styles.
\clbgdkfdiag	Specifies a dark forward diagonal background pattern for the cell (\\\\).
\rawclbgdkfdiag	Same as \clbgdkfdiag for use with table styles.
\clbgdkbdiag	Specifies a dark backward diagonal background pattern for the cell (////).
\rawclbgdkbdiag	Same as \clbgdkbdiag for use with table styles.
\clbgdkcross	Specifies a dark cross background pattern for the cell.
\rawclbgdkcross	Same as \clbgdkcross for use with table styles.
\clbgdkdcross	Specifies a dark diagonal cross background pattern for the cell.
\rawclbgdkdcross	Same as \clbgdkdcross for use with table styles.
\clcfpat/V	N is the line color of the background pattern.
\clcfpatraw/V	Same as \clcfpatN for use with table styles.
\clcbpat <i>N</i>	$m{\textit{N}}$ is the background color of the background pattern.
\clcbpatraw/V	Same as \clcbpatN for use with table styles.
Cell Vertical Text	Alignment
\clvertalt	Text is top-aligned in cell (the default).
\clvertalc	Text is centered vertically in cell.
\clvertalb	Text is bottom-aligned in cell.
Cell Text Flow	
\cltxlrtb	Text in a cell flows from left to right and top to bottom (default).
\cltxtbrl	Text in a cell flows right to left and top to bottom.
\cltxbtlr	Text in a cell flows left to right and bottom to top.
\cltxlrtbv	Text in a cell flows left to right and top to bottom, vertical.
\cltxtbrlv	Text in a cell flows top to bottom and right to left, vertical.
1	. I

Example

The following is an example of a complex Word 2000 table created from RTF. It does not take account of the table styles implemented in Word 2002, Word 2003, or Word 2007. The bitmap showing the table's formatting is followed by the actual RTF used to create it. Following this example display of RTF is an analysis of the control words and values used to create the table.

The image shows a freely positioned Word table, with two cells at an offset. Inside the topmost cell is a nested table. The table has green borders, yellow shading, a small amount of spacing between cells, and inner cell margins or padding.



The following RTF was emitted by Word 2000. Word 2000 also emits RTF that older readers (such as previous versions of Word) can understand, so new features degrade nicely.

 $\trowd $$ \trowd \trowd15\tr$

\trbrdrh\brdrs\brdrw15\brdrcf11 \trbrdrv\brdrs\brdrw15\brdrcf11

 $\t tphmrg\t posxc\t posyc\t dfrmtxtLeft187\t dfrmtxtRight187\t posyc\t posyc\t dfrmtxtLeft187\t posyc\t posy$

 $\label{lang1033} $$ \frac{1033}{angfe2052\loch\af0\hich\af17\cgrid\langnp1033\langfenp2052 {\hich\af0\dbch\af17\loch\f0 CELL ONE } $$$

\par }\pard \qc

 $\label{thm:lin0} $$ \ql \leq \ql \del{thm:lin0} itap2 $$ \ql \del{thm:lin0} itap2 $$ \ql \trowd \trgaph108\trleft8\trbrdrt\brdrs\brdrcf11 $$$

\trbrdrl\brdrs\brdrw15\brdrcf11 \trbrdrb\brdrw15\brdrcf11 \trbrdrr

 $\label{thm:brdrw15} $$ \ \trbrdrw15\$

\clvertalt\clbrdrt\brdrs\brdrw15\brdrcf11 \clbrdrl\brdrs\brdrw15\brdrcf11 \clbrdrb

\brdrs\brdrw15\brdrcf11 \clbrdrr\brdrs\brdrw15\brdrcf11 \cltx\rtb\clfts\dth3\clw\width2340 \cellx2348\nestrow}{\nonesttables

\par }}\trowd \trgaph115\trleft388\trbrdrt\brdrs\brdrw15\brdrcf11 \trbrdrl\brdrs\brdrw15\brdrcf11
\trbrdrb\brdrs\brdrw15\brdrcf11 \trbrdrh\brdrs\brdrw15\brdrcf11
\trbrdry\brdrs\brdrw15\brdrcf11

 $\t tphmrg\t posxc\t posyc\t dfrmtxtLeft187\t dfrmtxtRight187\t posxc\t posyc\t dfrmtxtLeft187\t posxc\t posyc\t dfrmtxtLeft187\t posxc\t posyc\t dfrmtxtRight187\t posxc\t posyc\t p$

 $\label{thm:brdrw15} $$ \ \clbrdrv15\ \cl$

\qc

 $\label{thm:li0} $$ \tilde \theta^1.0 \rightarrow \theta^1. $$ \tilde \theta^1.$

 $\label{thm:brdrw15} $$ \ \trbrdr1 \trbrdr1\brdrs\brdrw15\brd$

 $\t tphmrg\t posxc\t posyc\t dfrmtxtLeft187\t dfrmtxtRight187\t posyc\t posyc\t dfrmtxtLeft187\t posyc\t posy$

 $\label{thm:brdrw15} $$ \ \climate{11 \climate{11} \clim$

 $\label{thm:brdrw15} $$ \ \clbrdrv15\ \clbrdv15\ \clbrdrv15\ \clbrdrv15\ \clbrdrv15\ \clbrdrv15\ \clb$

\ql

\trowd \trgaph115\trleft-158\trbrdrt\brdrs\brdrw15\brdrcf11 \trbrdrl\brdrs\brdrw15\brdrcf11
\trbrdrb\brdrs\brdrw15\brdrw1

 $\label{thm:loss} $$ \theta^1_0 \times \theta^1_1 \times \theta^1_1 + \theta^1_1 \times \theta^1_1 \times$

The following is an analysis of the preceding RTF. It has been restructured for ease of explanation. All text in red is comments. The topmost cell is cell 1 (inside row 1). The bottom cell is cell 2 (inside row 2).

Begin table row defaults for row 1.

\trowd

\trgaph115

\trleft388

Row borders

 $\trbrdrt\brdrs\brdrw15\brdrcf11 \trbrdrl\brdrs\brdrw15\brdrcf11 \trbrdrb\brdrw15\brdrcf11 \trbrdrr\brdrs\brdrw15\brdrcf11$

\trbrdrh\brdrs\brdrw15\brdrcf11 \trbrdrv\brdrs\brdrw15\brdrcf11

Absolute positioning of the table. All rows should have the same positioning.

 $\verb|\tphmrg\tposxc\tposyc\tdfrmtxtLeft187\tdfrmtxtRight187| \\$

Width of invisible cell before cell one (to simulate offset)

\trftsWidth1\trftsWidthB3\trwWidthB504\trftsWidthA3

Autofit is on.

\trautofit1

Default cell spacing for the row

 $\trspd114\trspdb14\trspdf13\trspdfb3\trspdfr3\trspdfb115\trpaddr$

Cell 1 definition begins.

Vertical alignment of contents

\clvertalc

Cell borders

 $\clbrdrt\brdrs\brdrw15\brdrcf11 \clbrdrl\brdrs\brdrw15\brdrcf11 \clbrdrb\brdrw15\brdrcf11 \clbrdrr\brdrs\brdrw15\brdrcf11$

Cell shading

\clcbpat17

Cell text flow

\cltxlrtb

Cell width, using new properties and old ones

\clftsWidth3\clwWidth4644 \cellx5074

Text for cell 1 begins here. Includes paragraph absolute positioning equivalent to the table absolute positioning above so that old readers get it right.

\pard\plain \qc

 $\label{li0} $$ \tilde \theta^{0} = \frac{10\pi^0\widetilde{10}\pi^0\widetilde{10}}{\pi^0\widetilde{10}} \ dermtxtx187\widetilde{10}\ dermtxty0\ dermtxty0$

 $\label{lang1033} $$ \space{2.10ch\af0\hich\af17\cgrid\langnp1033\langfenp2052 $$ \hich\af10\dbch\af17\cDK ONE $$$

\par }

Begin definition of nested table inside cell 1.

\pard \qc

 $\label{li0} $$ \tilde \end{array} \end{array} $$ \tilde \end{array} \aspalpha \aspnum faauto a djustright \in0 lin0 $$$

Notice itap is set to 2, indicating second nesting level.

\itap2

Nested cell ends with a \nestcell and is followed by a paragraph mark inside a \nonesttables destination, which is only read by readers that do not understand nested tables. This way the text in the nested table is in its own paragraph.

{\hich\af0\dbch\af17\loch\f0 NESTED TABLE\nestcel1{\nonesttables

\par }}\pard \ql \li0\ri0\widctlpar\intbl\aspalpha\aspnum\faauto\adjustright\rin0\lin0\itap2

Nested table properties occur after the text for the nested cell.

{{*\nesttableprops\trowd \trqaph108\trleft8\trbrdrt\brdrs\brdrw15\brdrcf11

\trbrdrl\brdrs\brdrw15\brdrcf11 \trbrdrb\brdrs\brdrw15\brdrcf11 \trbrdrr

 $\verb|\trpadd| 108 \\ trpadd| 108$

\clvertalt\clbrdrt\brdrs\brdrw15\brdrcf11 \clbrdrl\brdrs\brdrw15\brdrcf11 \clbrdrb

\par }}

End of nested table properties

Set the default for the row again after nested table! We're still in the first row, and this repeats what was written in the beginning of the row. Defaults of the table are reset and the cell is closed with a \cell.

 $\trowd $$ \trowd $$ \trowd15$

cf11 \trbrdrh\brdrs\brdrw15\brdrcf11 \trbrdrv\brdrs\brdrw15\brdrcf11

 $\t tphmrg\t posyc\t dfrmtxtLeft187\t dfrmtxtRight187\t rftsWidth1\t rftsWidthB3\t rwWidthB504\t rftsWidthB3\t rwWidthB504\t rftsWidthB3\t rwWidthB504\t rftsWidthB3\t rwWidthB504\t rftsWidthB3\t rwWidthB504\t rftsWidthB504\t rftsWidthB3\t rwWidthB504\t rftsWidthB504\t rftsWidthB504\t$

/dc

 $\label{li0} $$ \tilde \richt{li0\rightarrow \richt{lin0}\richt{lin0}\richt{lin0}\richt{lin0}\richt{lin0} {\cell } \ql $$$

 $\label{lin0} $$ 1i0\ri0\widetilde{\alpha} = \frac{1}{\alpha} \operatorname{lin0} \operatorname{lin0$

This is the end of the table cell.

Now the row ends, repeating the defaults of the row at the end of it!

{\trowd \trgaph115\trleft388\trbrdrt

 $\label{thm:brdrw15} $$ \ \trbrdr^b\drw15\brd$

 $\t tphmrg\t posyc\t dfrmtxtLeft187\t dfrmtxtRight187\t rftsWidth1\t rftsWidthB3\t rwWidthB504\t rftsWidthB3\t rspdf13\t rspd$

END OF ROW 1

Row 2 begins here and is structured similarly.

Row defaults

\trowd \trgaph115\trleft-158\trbrdrt\brdrs\brdrw15\brdrcf11 \trbrdrl

 $\label{thm:brdrw15} $$ \ \trbrdrw15\$

Absolute positioning for the table row, matching the previous one

 $\t tphmrg\t posyc\t frmtxtLeft187\t frmtxtRight187\t ftsWidth1\t ftsWidthB3\t ftsWidthA3\t rwWidthA900\t rautofit1\t rspd114\t rspd114\t rspd114\t rspd113\t rspdf13\t rspdf13$

Cell 2 properties

\clvertalt\clbrdrt

Cell 2 text

 \pard

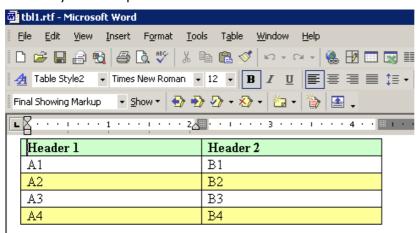
\ql

End cell 2 text

Now the row ends, repeating the defaults of the row at the end of it!

 $\trowd \trgaph115\trleft-158\trbrdrt\brdrs\brdrw15\brdrcf11 \trbrdrb\brdrs\brdrw15\brdrw15\brdrcf11 \trbrdrb\brdrw15\brdrw15\brdrcf11 \trbrdrb\brdrw15\brdrw15\brdrcf11 \trbrdrb\brdrw15\brdrcf11$

Table Styles Example



Here is the style sheet with one table style highlighted. Note that a single table style can have multiple entries.

\ts11 is the default table style. This style gives the first row a fill color and font attributes. Every subsequent odd row is filled with pale yellow.

 $\label{linear} $$ {\stylesheet{\ql \linear} \aspalpha\aspnum\faauto\adjustright\rino\linear} \aspalpha\aspnum\faauto\adjustright\rino\linear \aspalpha\aspnum\aspalpha\aspnum\faauto\adjustright\rino\linear \aspalpha\aspnum$

 $\label{langen} $$1024 \ang{e1024} \ang{e1024} \ang{enp1024} \ang{enp10$

 $\label{thm:condition} Table; $$ {\star ts15 \times brdrv10 \trbrdr1\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrb\brdry\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrb\brdrs\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrb\brdrw10 \trbrdrb\brdrw10 \trbrdrb\brdrw10 \trbrdrb\brdrw10 \trbrdrb\brdrw10 \trbrdrb\brdrw10 \trbrdrb\brdrw10 \trbrdrb\brdrw10 \trbrdrw10 \trbrdrb\brdrw10 \trbrdrb\brdrw10 \trbrdrw10 \trbrdrw$

\trbrdrr\brdrs\brdrw10 \trbrdrh\brdrs\brdrw10 \trbrdrr\brdrs\brdrw10

 $\trpaddf13\trpaddf13\trpaddft3\trpaddfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\trpadfr3\tr$

\li0\ri0\widctlpar\aspalpha\aspnum\faauto\adjustright\rin0\lin0\itap0

 $\label{thm:condition} $$ \space{10.24} \angfenp10.24 \angfenp10.24 \space{10.24} \angfenp10.24 \an$

\trbrdrb\brdrs\brdrv15\brdrcf1 \trbrdrr\brdrs\brdrv15\brdrcf1 \trbrdrv\brdrv\brdrv15\brdrv15\brdrcf1

 $\verb|\trpadd| 108 trpadd| 108 trpadd| 13 trpadd| 14 trpadd| 15 trpa$

0\tsvertalt\tsbrdrt\tsbrdrl\tsbrdrr\tsbrdrql\tsbrdrql\tsbrdrqql\tsbrdrh\tsbrdrv \q1

 $\label{li0parapalpha} $$ \10\ri0\widetilde{\rho}\adjustright\rin0\lin0\tap0 $$$

\fs20\lang1024\langfe1024\cgrid\langnp1024\langfenp1024 \sbasedon11 \snext16 \styrsid353782 Table
List 8;}{*\ts16\tsrowd\tscellcfpat7\tscellcbpat8\tscellpct10000\tsbrdrb\brdrs\brdrw15\brdrcf1
\tsbrdrdql\brdrnil\tsbrdrdqr\brdrnil \b\i \tscfirstrow Table List

```
8;}{\*\ts16\tsrowd\tscellcfpat7\tscellcbpat8\tscellpct2500\tsbrdrdgl\brdrnil\tsbrdrdgr\brdrnil\cf0
\tscbandhorzodd Table List
\tscbandhorzeven Table List 8;}{\*\ts17\tsrowd\trbrdrt\brdrs\brdrw10 \trbrdrl\brdrs\brdrw10
\trbrdrb\brdrs\brdrw10 \trbrdrr\brdrs\brdrw10 \trbrdrh\brdrs\brdrw10 \trbrdrv\brdrs\brdrw10
\verb|\trpadd| 108 trpadd| 108 trpadd| 13 trpadd| 14 trpadd| 15 trpa
0\tsvertalc\tsbrdrl\tsbrdrl\tsbrdrr\tsbrdrdgl\tsbrdrdgr\tsbrdrh\tsbrdrv \qr
\li0\ri0\widctlpar\aspalpha\aspnum\faauto\adjustright\rin0\lin0\itap0
\fs20\langf024\langfe1024\cgrid\langp1024\langfenp1024 \sbasedon15 \snext17 \styrsid353782 Table
Style1;}{\*\ts17\tsrowd\tsvertalc\tscellcfpat0\tscellcbpat17\tscellpct0 \qc \f36\fs22 \tscfirstrow
Table Style1;}{\*\ts17\tsrowd\tsvertalt \qr \tsclastrow Table Style1;}{\*\ts17\tsrowd \ql \f36\fs18
\tscfirstcol Table Style1;}{\*\ts17\tsrowd\tscellcfpat0\tscellcbpat18\tscellpct0 \tscbandhorzodd
Table Style1; {\t ts17\t srowd \b\f36\fs20 \t scsecell Table}
Style1; } {\*\ts18\tsrowd\trbrdrt\brdrs\brdrw10 \trbrdrl\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10
\trbrdrr\brdrs\brdrw10 \trbrdrh\brdrs\brdrw10 \trbrdrv\brdrs\brdrw10
\label{trpaddl108} $$ \tilde{H} = \frac{1}{3} trpaddl108 trpaddl108 trpaddl13 trpaddl13 trpaddl13 trpaddl13 trpaddl108 trpaddl10
0\tsvertalt\tsbrdrt\tsbrdrl\tsbrdrr\tsbrdrqq\tsbrdrq\tsbrdrh\tsbrdrv \q1
\li0\ri0\widctlpar\aspalpha\aspnum\faauto\adjustright\rin0\lin0\itap0
\fs20\lang1024\langfe1024\cgrid\langnp1024\langfenp1024 \sbasedon15 \snext18 \styrsid353782 Table
Style2;}{\*\ts18\tsrowd\tscellcfpat0\tscellcbpat17\tscellpct0 \b \tscfirstrow Table
Style2;}{\*\ts18\tsrowd\tscellcfpat0\tscellcbpat18\tscellpct0 \tscbandhorzeven Table Style2;}}
```

Table RTF

Most of this has been explained in the preceding example, so only some of the changes in Word 2002 have been highlighted.

```
\trowd \irow0\irowband-1\ts18\trgaph108\trleft-108\trbrdrt\brdrs\brdrw10 \trbrdr1\brdrs\brdrw10
\trbrdrb\brdrs\brdrw10 \trbrdrr\brdrs\brdrw10 \trbrdrh\brdrs\brdrw10 \trbrdrv\brdrs\brdrw10
\label{treswidth1} $$ \left( \frac{108}{108} \right) $$ tr fts Width B3 trauto fit 1 trpadd 1108 trpadd f13 tr
\trpaddfr3\tscbandsh1\tbllkhdrrows\tbllklastrow\tbllkhdrcols\tbllklastcol
\clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10
\clcbpat17\cltxlrtb\clftsWidth3\clwWidth3208\clcbpatraw17 \cellx3100\clvertalt\clbrdrt\brdrs\brdrw10
\clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10
\clcbpat17\cltxlrtb\clftsWidth3\clwWidth3207\clcbpatraw17 \cellx6307\pard\plain \ql
\li0\ri0\widctlpar\intbl\aspalpha\aspnum\faauto\adjustright\rin0\lin0\tscfirstrow\yts18
\label{lang1033} $$  \left(\frac{33}{3782 \ Header 1\cl} \right) = \frac{103}{2000} $$  \left(\frac{33}{3782 \ Header 1\cl} \right) $$
\ql \li0\ri0\widctlpar\intbl\aspalpha\aspnum\faauto\adjustright\rin0\lin0\tscfirstrow\yts18
\b\fs24\lang1033\langfe1033\cgrid\langnp1033\langfenp1033 {\insrsid353782 Header 2\cell }\pard\plain
\verb|\label{li0||} $$ 110\ri0\widetilde{\} aspalpha\aspnum\faauto\adjustright\rin0\lin0 $$
\fs24\lang1033\langfe1033\cgrid\langnp1033\langfenp1033 {\insrsid353782 \trowd \irow0\irowband-1
\ts18\trgaph108\trleft-108\trbrdrt\brdrs\brdrw10 \trbrdrl\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10
\trbrdrr\brdrs\brdrw10 \trbrdrh\brdrs\brdrw10 \trbrdrv\brdrs\brdrw10
\trftsWidth1\trftsWidthB3\trftsWidthA3\trautofit1\trpaddl108\trpaddf13\trpaddft3\trpaddfb3
```

\trpaddfr3\tscbandsh1\tbllkhdrrows\tbllklastrow\tbllkhdrcols\tbllklastcol \clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clcbpat17\cltxlrtb\clftsWidth3\clwWidth3208\clcbpatraw17 \cellx3100\clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clcbpat17\cltxlrtb\clftsWidth3\clwWidth3207\clcbpatraw17 \cellx6307\row }\trowd \irow1\irowband0\ts18\trgaph108\trleft-108\trbrdrt\brdrs\brdrw10 \trbrdrl\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrr\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrv\brdrs\brdrw10 \trftsWidth1\trftsWidthB3\trftsWidthA3\trautofit1\trpaddl108\trpaddf13\trpaddft3\trpaddft3 \trpaddfr3\tscbandsh1\tbllkhdrrows\tbllklastrow\tbllkhdrcols\tbllklastcol \clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \cltxlrtb\clftsWidth3\clwWidth3208\clshdrawnil \cellx3100\clvertalt\clbrdrt\brdrs\brdrw10 \clbrdr\\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \cltxlrtb\clftsWidth3\clwWidth3207\clshdrawnil \cellx6307\pard\plain \ql \li0\ri0\widctlpar\intbl\aspalpha\aspnum\faauto\adjustright\rin0\lin0\yts18 \fs24\lang1033\langfe1033\cgrid\langnp1033\langfenp1033 {\insrsid353782 A1\cell B1\cell }\pard\plain \ql \li0\ri0\widctlpar\intbl\aspalpha\aspnum\faauto\adjustright\rin0\lin0 \fs24\lang1033\langfe1033\cqrid\langnp1033\langfenp1033 {\insrsid353782 \trowd \irow1\irowband0\ts18\trgaph108\trleft-108\trbrdrt\brdrs\brdrw10 \trbrdrl\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrr\brdrs\brdrw10 \trbrdrh\brdrs\brdrw10 \trbrdrv\brdrs\brdrw10 \trftsWidth1\trftsWidthB3\trftsWidthA3\trautofit1\trpaddl108\trpaddf13\trpaddft3\trpaddfb3 \trpaddfr3\tscbandsh1\tbllkhdrrows\tbllklastrow\tbllkhdrcols\tbllklastcol \clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \cltx\rtb\clfts\Width3\c\u00e4\w00e4\clshdrawnil \cellx3100\c\u00e4\clbrdrt\brdrt\brdrx\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \cltxlrtb\clftsWidth3\clwWidth3207\clshdrawnil \cellx6307\row }\trowd \irow2\irowband1\ts18\trgaph108\trleft-108\trbrdrt\brdrs\brdrw10 \trbrdrl\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrr\brdrs\brdrw10 \trbrdrh\brdrs\brdrw10 \trbrdrv\brdrs\brdrw10 $\label{treswidth1} $$ \left(\frac{1}{tr} \right) \frac{1}{tr} dd 108 \frac{108}{tr} dd 13 \frac{108}{tr} dd 13 \frac{108}{tr} dd 13 \frac{108}{tr} dd 108 \frac{108}{tr} dd$ \trpaddfr3\tscbandsh1\tbllkhdrrows\tbllklastrow\tbllkhdrcols\tbllklastcol \clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clcbpat18\cltxlrtb\clftsWidth3\clwWidth3208\clcbpatraw18 \cellx3100\clvertalt\clbrdrt\brdrx\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clcbpat18\cltxlrtb\clftsWidth3\clwWidth3207\clcbpatraw18 \cel1x6307\pard\plain \ql $\verb|\li0| ri0| widct| par\intb| aspalpha aspnum faauto adjustright rin0| lin0| tscbandhorzeven yts18| aspnum faauto adjustright rin0| lin0| tscbandhorzeven adjustright rin0| tscbandhorzeven adjust$ \fs24\lang1033\langfe1033\cgrid\langnp1033\langfenp1033 {\insrsid353782 A2\cell }\pard\plain \ql $\label{li0} $$ 1i0\ri0\widetilde{t} \aspalpha\aspnum faauto\adjustright\rin0\lin0\tscbandhorzeven\yts18. The property of the control of the control$ $\label{lang1033} $$ \frac{33^32 B2\cell } \qquad \ql \end{lang} $$ \cell } \cell } \cell \c$ \li0\ri0\widctlpar\intbl\aspalpha\aspnum\faauto\adjustright\rin0\lin0 \fs24\lang1033\langfe1033\cgrid\langnp1033\langfenp1033 {\insrsid353782 \trowd $\label{linear_loss} $$\lim_{t\to\infty}108\theta^{108}\theta^{$ \trbrdrb\brdrs\brdrw10 \trbrdrr\brdrs\brdrw10 \trbrdrh\brdrs\brdrw10 \trbrdrv\brdrs\brdrw10 $\verb|\trpaddfr3| tscbandsh1| tbllkhdrrows| tbllklastrow| tbllkhdrcols| tbllklastcol| trpaddfr3| tscbandsh1| tbllkhdrrows| tbllklastrow| tbllkhdrrows| tbllkhdrrows| tbllkhdrrows| tbllkhdrrows| trpaddfr3| tscbandsh1| tbllkhdrrows| tbllkhdrrows$

\clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clcbpat18\cltxlrtb\clftsWidth3\clwWidth3208\clcbpatraw18 \cellx3100\clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clcbpat18\cltxlrtb\clftsWidth3\clwWidth3207\clcbpatraw18 \cellx6307\row }\trowd \irow3\irowband2\ts18\trgaph108\trleft-108\trbrdrt\brdrs\brdrw10 \trbrdrl\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrr\brdrs\brdrw10 \trbrdrh\brdrs\brdrw10 \trbrdrv\brdrs\brdrw10 $\label{treswidth1} $$ \left(\frac{108}{108} \right) $$ tr fts Width B3 trauto fit 1 trpadd 1108 trpadd f13 tr$ \trpaddfr3\tscbandsh1\tbllkhdrrows\tbllklastrow\tbllkhdrcols\tbllklastcol \clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \cltxlrtb\clftsWidth3\clwWidth3208\clshdrawnil \cellx3100\clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \cltxlrtb\clftsWidth3\clwWidth3207\clshdrawnil \cellx6307\pard\plain \ql $\label{li0} $$ \Pi^{\infty}\left(\frac{1}{n} \right) = \frac{1}{n} \left(\frac{1}{n} \right) \left(\frac{1}{n} \right$ \fs24\lang1033\langfe1033\cgrid\langnp1033\langfenp1033 {\insrsid353782 A3\cell B3\cell }\pard\plain \ql \li0\ri0\widctlpar\intbl\aspalpha\aspnum\faauto\adjustright\rin0\lin0 \fs24\lang1033\langfe1033\cqrid\langnp1033\langfenp1033 {\insrsid353782 \trowd \irow3\irowband2\ts18\trgaph108\trleft-108\trbrdrt\brdrs\brdrw10 \trbrdrl\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrr\brdrs\brdrw10 \trbrdrh\brdrs\brdrw10 \trbrdrv\brdrs\brdrw10 \trftsWidth1\trftsWidthB3\trftsWidthA3\trautofit1\trpaddl108\trpaddf13\trpaddft3\trpaddfb3 \trpaddfr3\tscbandsh1\tbllkhdrrows\tbllklastrow\tbllkhdrcols\tbllklastcol \clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \cltxlrtb\clftsWidth3\clwWidth3208\clshdrawnil \cellx3100\clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \cltxlrtb\clftsWidth3\clwWidth3207\clshdrawnil \cellx6307\row }\trowd \irow4\irowband3\lastrow \ts18\trqaph108\trleft-108\trbrdrt\brdrs\brdrw10 \trbrdrl\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrr\brdrs\brdrw10 \trbrdrh\brdrs\brdrw10 \trbrdrv\brdrs\brdrw10 $\label{treadd} $$\operatorname{trftsWidthB3}\operatorname{tr}_1\add108\operatorname{tr}_2\add13\operatorname{tr}_2\addf13\operatorname{tr}_2\add$ $\verb|\trpaddfr3| tscbandsh1| tbllkhdrrows| tbllklastrow| tbllkhdrcols| tbllklastcol|$ \clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clcbpat18\cltxlrtb\clftsWidth3\clwWidth3208\clcbpatraw18 \cellx3100\clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10 \clcbpat18\cltxlrtb\clftsWidth3\clwWidth3207\clcbpatraw18 \cellx6307\pard\plain \ql \li0\ri0\widctlpar\intbl\aspalpha\aspnum\faauto\adjustright\rin0\lin0\tscbandhorzeven\yts18 $\label{langen} $$ \frac{1033}{\angfe1033}\cgrid\angp1033\angfenp1033 {\insrsid353782 A4\cell }\operatorname{\ql} \ql} $$$ \li0\ri0\widctlpar\intbl\aspalpha\aspnum\faauto\adjustright\rin0\lin0\tscbandhorzeven\yts18 $fs24\lang1033\langfe1033\cgrid\langnp1033\langfenp1033 {\insrsid353782 B4\cell }\pard\plain \ql$ $\label{li0ri0widctlpar} $$ 1i0\ri0\widetilde{\alpha} = \sum_{a,b} \alpha \sum_{$ \fs24\lang1033\langfe1033\cgrid\langnp1033\langfenp1033 {\insrsid353782 \trowd \irow4\irowband3\lastrow \ts18\trgaph108\trleft-108\trbrdrt\brdrs\brdrw10 \trbrdrl\brdrs\brdrw10 \trbrdrb\brdrs\brdrw10 \trbrdrr\brdrs\brdrw10 \trbrdrh\brdrs\brdrw10 \trbrdrv\brdrs\brdrw10 \trftsWidth1\trftsWidthB3\trftsWidthA3\trautofit1\trpaddl108\trpaddf13\trpaddft3\trpaddfb3 \trpaddfr3\tscbandsh1\tbllkhdrrows\tbllklastrow\tbllkhdrcols\tbllklastcol \clvertalt\clbrdrt\brdrs\brdrw10 \clbrdrl\brdrs\brdrw10 \clbrdrb\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10

\clcbpat18\cltxlrtb\clftsWidth3\clwWidth3208\clcbpatraw18 \cellx3100\clvertalt\clbrdrt\brdrs\brdrw10
\clbrdrl\brdrs\brdrw10 \clbrdrr\brdrs\brdrw10
\clcbpat18\cltxlrtb\clftsWidth3\clwWidth3207\clcbpatraw18 \cellx6307\row }\pard \ql
\li0\ri0\widctlpar\aspalpha\aspnum\faauto\adjustright\rin0\lin0\itap0 {\insrsid14034704 \par }

Mathematics

This section discusses the Microsoft Office Word 2007 math RTF control words. These control words mirror the Office Open XML Math elements (OMML, see Office Open XML, Section 7.1), only they are written with RTF syntax. Because of this, the Office Open XML specification can be referenced for further math information. For example in OMML, the built-up skewed fraction α_b can be represented by (leaving out parent math zone elements):

In RTF, this can be represented as:

```
{\mf{\mfPr{\mctrlPr}{\mtype skw}}
{\mnum\u-10187?\u-9138?}
{\mden\u-10187?\u-9137?}}
```

The math object's properties group must be included, here {\mfPr...}, including the {\mctrlPr} even if the latter is empty if you want the text to inherit ambient character formatting.

Word generally does not write surrogate pairs for Unicode math alphanumerics like a and 5, but they work and they're simpler to use since they're used internally for most math variables. Instead, Word writes $\mbox{\mbox{$\mbox{$wr\mbox{$msty2$} a$}}$ for the math italic a (U+1D44E) in the numerator of the fraction above and $\mbox{\mbox{$\mbox{$wr\mbox{$msty2$} b$}}$ for the math italic b (U+1D44F) in the denominator. Surrogate pairs like \u-10187?\u-9138? must appear inside math object groups as in this example, or inside a math text-run group $\mbox{\mbox{$\mbox{wr}...}}$ if not inside a math object.

Math information is collected into two areas:

- 1. Document default math properties in the {\mmathPr...} group
- 2. Math zones in {\mmath...} groups

A *math zone* is a text range within which math typography rules usually apply and outside of which math typography rules do not apply. Math zones can contain specially marked normal text

runs for which math typography rules don't apply (see \mnor). With Office math, math zones are identified internally by a character-format effect bit like bold. Hence if you delete the ordinary text separating two math zones, you get a single merged math zone.

Math zones can be *inline* or *display*, corresponding to <u>TeX</u>'s \$ and \$\$ toggle keys. If a math zone fills an entire paragraph, it is a display math zone, i.e., it is displayed on its own line(s). If a math zone is preceded and/or followed by nonmath text other than a **\par**, the math zone is inline and is rendered in a more compressed fashion. Inline math zones usually consist of math expressions or variables, whereas display math zones usually consist of one or more equations or formulas.

The RTF for the content of an inline math zone replaces the first ellipsis of the nested group structure

```
{\mmath {\*\moMath...}{\mmathPict...}}
```

Readers that do not understand the ignorable ${\mbox{\mbox{$\mbox{$\mbox{$}}}} \mbox{\mbox{$\mbox{$}$}} \mbox{\mbox{\mbox{$}$}} \mbox{\mbox{$\mbox{$}$}} \mbox{\mbox{\mbox{$\mbox{$}$}} \mbox{\mbox{$\mbox{$}$}} \mbox{\mbox{\mbox{$\mbox{$}$}} \mbox{\mbox{\mbox{$}$}} \mbox{\mbox{\mbox{$\mbox{$}$}} \mbox{\mbox{\mbox{$}$}} \mbox{\mbox{\mbox{$\mbox{$}$}} \mbox{\mbox{\mbox{$}$}} \mbox{\mbox{\mbox{$}$}} \mbox{\mbox{\mbox{$\mb$

The RTF for the content of a display math zone replaces the second ellipsis in the nested group structure

```
{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}
```

Here the + means that a {*\moMath...} group is emitted for each instance of mathematical text that should start on a new line, e.g., for each new equation. The control word \moMathPara stands for a "math paragraph", which can contain multiple equations with various alignment and breaking options. A math paragraph may be part of a text paragraph (text ending in a \par and either starting a document or following a \par). In general, a text paragraph can contain multiple math paragraphs separated from one another by lines of normal text.

In this discussion, we see that math RTF uses two ways to assign property values depending on the property: 1) the standard RTF way with a parameter N as in \msty2, and 2) using a mini group like {\mtype skw}. The latter way is inspired from the corresponding OMML syntax, such as <m:type m:val="skw"/>, while the RTF way is more succinct. As usual in this document, control words that take a parameter N are displayed with a trailing N in the following detailed definitions.

Syntax

The math RTF document properties group has the following syntax:

```
<mathprops> '{\*' \mmathPr <mathPr>* '}'
<mathPr> \mbrkBinN | \mbrkBinSubN | \mdefJcN | \mdispDefN | \mintErSpN | \mintLimN | \mintraSpN | \mmathFontN | \mnaryLimN | \mpostSpN | \mpostSpN | \mrMarginN | \msmallFracN | \mwrapIndentN | \mwrapRightN
```

The math zone RTF group has the following syntax:

In principle, the \fN specifying the math font shouldn't be necessary in the <oMath> definition, since the \mmathFontN should provide the default. But Word 2007 does need it. Math objects have the following syntax:

```
'{' \macc <accPr><e> '}'
<acc>
<bar>
                    '{' \mbar <barPr><e> '}'
<br/>borderBox>
                    '{' \mborderBox <borderBoxPr><e> '}'
                    '{' \mbox <boxPr><e> '}'
<hox>
<d>
                    '{' \md <dPr><e>+ '}'
                    '{' \meqArr <eqArrPr><e>+ '}'
<eqArr>
<f>
                    '{' \mf <mfPr><num><den> '}'
                    '{' \mfunc <mfuncPr><fname><e> '}'
<func>
<groupChr>
                    '{' \mgroupChr <groupChrPr><e> '}'
                    '{' \mlimlow <limLowPr><lim><e> '}'
Low>
                    '{' \mlimUpp <limUppPr><lim><e> '}'
Upp>
<m>
                    '{' \mm <mPr><mr>+ '}'
                    '{' \mnary <naryPr><sub><sup><e> '}'
<nary>
<phant>
                    '{' \mphant <phantPr><e> '}'
                    '{' \mrad <radPr><e> '}'
<rad>
<sPre>
                    '{' \msPre <sPrePr><sub><sup><e> '}'
                    '{' \msSub <sSubPr><sub><e> '}'
<sSub>
                    '{' \msSubSup <sSubSupPr><sub><sup><e> '}'
<sSubSup>
                    '{' \msSup <sSupPr><sup><e> '}'
<sSup>
```

Math object property groups have the following syntax

```
'{' \maccPr <chr>?<ctrlPr> '}'
<accPr>
<barPr>
                      '{' \mbarPr <pos>?<ctrlPr> '}'
<br/>
<br/>
derBoxPr>
                      '{' \mborderBoxPr <borderBoxPrp>* <ctrlPr> '}'
<box>Pr>
                      '{' \mboxPr <boxPrp>* \mbrk?<ctrlPr> '}'
<dPr>
                      '{' \mdPr <begChr>? <endChr>? <sepChr>? <grow>? <shp>? <ctrlPr> '}'
                      '{' \meqArrPr <baseJc>? <maxdist>? <objdist>? \mrSpN? \mrSpRuleN? <ctrlPr> '}'
<eqArrPr>
<fPr>
                      '{' \mfPr <type>?<ctrlPr> '}'
                      '{' \mfuncPr <ctrlPr> '}'
<funcPr>
                      '{' \mgroupChrPr <chr>? <pos>? <vertJc>? <ctrlPr> '}'
<groupChrPr>
limLowPr>
                      '{' \mlimLowPr <ctrlPr> '}'
UppPr>
                      '{' \mlimUppPr <ctrlPr> '}'
<mPr>
                      '{' \mmPr <baseJc>? \mcGpN? \mcGpRuleN? \mcSpN? <mcs> <plcHide>? \mrSpN?
                      \mrSpRuleN? <ctrlPr> '}'
                      '{' \mnaryPr <chr>? <grow>? <limloc>? <subhide>? <suphide>? <ctrlPr> '}'
<naryPr>
                      '{' \mphantPr <phantprp>* <ctrlPr> '}'
<phantPr>
<radPr>
                      '{' \mradPr ('{' \mdegHide <onoff> '}')? <ctrlPr> '}'
                      '{' \msPrePr <ctrlPr> '}'
<sPrePr>
```

```
      <sSubPr>
      '{' \msSubPr < ctrlPr> '}'

      <sSubSupPr>
      '{' \msSubSupPr ('{' \malnScr < onoff> '}')? < ctrlPr> '}'

      <sSupPr>
      '{' \msSupPr < ctrlP> '}'

      <ctrlPr>
      '{' \mctrlPr < chrfmt>* '}'
```

Math object arguments have the following syntax:

```
<deg>
                     '{' \mdeg <argPr>? <math> '}'
                     '{' \mden <argPr>? <math> '}'
<den>
<e>
                     '{' \me <argPr>? <math> '}'
<
                     '{' \mlim <argPr>? <math> '}'
<fname>
                     '{' \mfName <argPr>? <math> '}'
<mr>
                     '{' \mr <e>+ '}'
<num>
                     '{' \mnum <argPr>? <math> '}'
<sub>
                     '{' \msub <argPr>? <math> '}'
                     '{' \msup <argPr>? <math> '}'
<sup>
<argPr>
                     '{' \margPr \margSz? '}'
```

Math object properties and text have the following syntax:

```
<baselc>
                      '{' \mbaseJc ('bot' | 'top') '}'
                      '{' (\mhideBot | \mhideLeft | \mhideRight | \mhideTop | \mstrikeBLTR | \mstrikeH |
<br/>
<br/>
borderBoxPrp>
                      \mstrikeTLBR | \mstrikeV) <onoff> '}'
                      '{' (\main | \mdiff | \mnoBreak | \mopEmu) <onoff> '}'
<boxPrp>
<chr>
                      '{' \mchr <single char> '}'
                      '{' \mcount <digits> '}'
<count>
<begChr>
                      '{' \mbegChr <single char> '}'
<endChr>
                      '{' \mendChr <single char> '}'
<grow>
                      '{' \mgrow <onoff> '}'
limLoc>
                      '{' \mlimLoc ('undovr' | 'subsup') '}'
<lit>
                      '{' \mlit <onoff> '}'
                      (<mathobject> | <r> | <char> | <u>)*
<math>
                      '{' \mmathPict '{\*' \shppict <pict> '}{' \nonshppict <pict> '}}'
<mathPict>
                      '{' \mmc <mcpr> '}'
<mc>
<mcPr>
                      '{' \mmcPr <count>? <mjc>? '}'
<mcs>
                      '{' \mmcs <mc>+ '}'
                      '{' \mmjc ('left' | 'center' | 'right') '}'
<mjc>
                      '{' \mr (\mnor | \mscrN \mstyN)? \mlit? <char>* <u>* '}'
<r>
                      '{' \mmaxDist <onoff> '}'
<maxDist>
<objDist>
                      '{' \mobjDist <onoff> '}'
                      'on' | 'off'
<onoff>
                      '{' (\mshow | \mtransp | \mzeroAsc | \mzeroDesc | \mzeroWid) <onoff> '}'
<phantPrp>
```

```
'{' \mplcHide <onoff> '}'
<plcHide>
                      '{' \mpos ('top' | 'bot') '}'
<pos>
<sepChr>
                      '{' \msepChr <single char> '}'
<single char>
                      single character or <u>
                      '{' \mshp ('match' | 'centered') '}'
<shp>
<subHide>
                      '{' \msubHide <onoff> '}'
<supHide>
                      '{' \msupHide <onoff> '}'
                      '{' \mtype ('bar' | 'lin' | 'nobar' | 'skw') '}'
<type>
<u>
                      \uN '?'
                      '{' \mvertJc ('bot' | 'top') '}'
<vertJc>
```

Math Objects

Built-up objects like fractions and integrals can appear inside the ${\mbox{\mbox{$\mbox{$}}}\mbox{$\mbox{$}}\mbox{$\mbox{$}$}}\mbox{$\mbox{$}}\mbox{$\mbox{$}$

Control word	Meaning
\macc	Accent object, consisting of a base and a combining diacritical mark.
	Example accent functions are $\dot{\alpha}_{a} \hat{\alpha}_{a} \hat{\alpha}_{a} \hat{\alpha}_{b} \hat{\alpha}_{b}$.
\mbar	Bar object, consisting of a base argument and an overbar or underbar
\mborderBox	Border Box object, consisting of a border drawn around an equation as in $\alpha^2 + b^2 = c^2$.
\mbox	Box object, which is used to group components of an equation
\md	Delimiter object, consisting of opening and closing delimiters (such as parentheses, braces, brackets, and vertical bars), and an element contained inside like $(a+b)$.
\meqArr	Equation-Array object, an object consisting of one or more equations that can be vertically justified as a unit respect to surrounding text on the line. Alignment of multiple points within each equation can occur within the equation array
\mf	Fraction object, consisting of a numerator and denominator separated by a fraction bar like $\frac{\varpi}{ }$.
\mfunc	Function-Apply object used for math functions like sin.*.
\mgroupChr	Group Character object used for stretching a character above or below other characters
\mlimLow	Lower limit object
\mlimUpp	Upper limit object
\mm	Matrix object, consisting of one or more elements laid out in one or more rows and one or more columns
\mnary	<i>n</i> -ary object (includes integrals, summations, products,)
\mphant	Phantom object used to introduce or suppress spacing
\mrad	Radical object like $\sqrt{\pi}$
\msPre	Pre-Sub-Superscript object, which contains a base $\mbox{\bf me}$ preceded by a subscript $\mbox{\bf msub}$ and superscript $\mbox{\bf msup}$, e.g., $\mbox{\bf preceded}$
\msSub	Subscript object which contains a base $\mbox{\bf me}$ followed by a subscript $\mbox{\bf msub}$, e.g., $\mathfrak{a}_{\mathbb{R}}$
\msSubSup	Subscript superscript object like α_2^3

\msSup Superscript object like **

Math Object Arguments

Each math object group contains a property group and one or more arguments. The arguments are contained in the special groups defined in the following argument table:

Control word	Meaning
\mdeg	Degree argument of radical object \mrad
\mden	Denominator argument of fraction object \mf
\me	Base "element" of all mathematical objects except \mf
\mlim	Limit argument of a \mlimLow or \mlimUpp objects
\mfName	Function name argument of the Function-Apply object \mfunc
\mnum	Numerator argument of fraction object \mf
	Example: The a in =.
\msub	Subscript argument of \mnary, \msPre, \msSub, \msSubSup objects
\msup	Superscript argument of \mnary, \msPre, \msSup, \msSubSup objects

Math RTF Control Words

Here is an alphabetical listing of all RTF math control words (to obtain the corresponding Office Open XML tag, delete the leading "\m"):

Control word	Meaning
\macc	Accent object, consisting of a base and a combining diacritical mark.
\maccPr	Accent object properties group
\maln	Alignment property on box object, utilized only when box is designated as an operator emulator. When true, this operator emulator serves as an alignment point; that is, designated alignment points in other equations can be aligned with it.
\malnScr	Alignment of scripts in subscript/superscript object. When on (resulting from {\mainScr on}), subscripts and superscripts are aligned to each other. When off, they are kerned to the shape of the base. If this control word is omitted, scripts are not aligned.
	Example: (off): f_2^2 (on): f_2^2
\margPr	Math argument properties group
\margSz	Size, or script level, of an argument. For example, {\margSz 1} requests the next larger size (next smaller script level). Only text, script, and scriptscript sizes are available. This appears in the subscript object α_1 in contrast to the usual α_1 .
\mbar	Bar object, consisting of a base argument and an overbar or underbar as in $\overline{a+b}$ and $\underline{a+b}$, depending on the \mpos property.
\mbarPr	Bar object properties group
\mbaseJc	Vertical justification of a matrix.
	Text outside the matrix can be aligned with the bottom, top, or center of a matrix function. If this control word is omitted, the matrix assumes center justification.
	Example:
	This matrix has {\mbaseJc center} : $\begin{pmatrix} 1 & 2 \\ 3 & 4 \\ 5 & 6 \end{pmatrix}$

This matrix has **{\mbaseJc top}**: $\begin{pmatrix} 1 & 2 \\ 3 & 4 \\ 5 & 6 \end{pmatrix}$

This matrix has **{\mbaseJc bot}**: $\begin{pmatrix} 1 & 2 \\ 3 & 4 \\ 5 & 6 \end{pmatrix}$

\mbegChr

Beginning, or opening, delimiter character. Mathematical delimiters are enclosing characters such as parentheses, brackets, and braces. If this control word is omitted, the default \mbegChr is '('.

The expression [n] uses { and } as its enclosing characters as specified by the RTF

\mborderBox

Border Box object, consisting of a border drawn around an equation

\mborderBoxPr

Border Box object properties group; specifies the properties of the \mborderBox object, which dictate the types of lines that can be drawn as part of the border.

Example: [12] + [13] (Diagonal Strikethrough from Upper left)

 $a^2 + b^2 = c^2$ (no left or right edges)

\mbox

Box object, used to group components of an equation.

\mboxPr

Box object properties group; specifies properties of the \mbox function, for example, whether the \mbox serves as operator emulator with or without an alignment point, serves as a line breakpoint, or receives the correct spacing for the mathematical differential.

 \mbrkN

Specifies whether a line break occurs in a display math zone at start of \mbox or \mr object such that the line wraps at the start of the run or function. If this control word is omitted, a manual break is not inserted. The line may happen to wrap at this point if the equation exceeds the column width. The break aligns to the (N + 1)st operator on the first line of the math zone.

Example: The following example has a manual line break \mbrk1 for the run containing

Example: The following example has a mathematical threshold threshold in the sign:
$$\pi_2(x,y_1) = x_2A_1\left(1 - \frac{1}{y_2\alpha_2} - \frac{1}{y_3\alpha_3} + \frac{1}{y_2y_3\alpha_2\alpha_3} - \cdots \pm \frac{1}{y_2y_3p_4 \dots p_1\alpha_3\alpha_4 \dots \alpha_1}\right).$$

\mbrkBinN

Document property specifying how binary operators are treated when they coincide with a line break.

If this control word is omitted or $\mathbf{N} = 0$, the line break occurs before the binary operator. That is, the binary operator is the first control word on the wrapped line. If N = 1, the line break occurs after the operator. If $\mathbf{N} = 2$, the operator is duplicated, that is, it appears at the end of the first line and at the start of the second (see \mbrkBinSubN for an enhancement of this kind of break).

Example:

$$f(x) = \alpha_{11} + \alpha_{12} + \cdots \qquad \qquad f(x) = \alpha_{11} + \alpha_{12} + \cdots + \qquad f(x) = \alpha_{11} + \alpha_{12} + \cdots + \alpha_{1n}$$

$$+ \alpha_{nn} \qquad \qquad + \alpha_{nn}$$
Before After Duplicate

\mbrkBinSubN

Document property specifying how a subtraction operator — is treated when it coincides with a line break when \mbrkBinN is set to duplicate. If this control word is omitted or N = 0, the $\overline{}$ appears before and after the break. If N = 1, + appears before the break and – after the break. If N = 2, – appears before the break and + after the break.

\mcGpN

Custom matrix column-gap spacing information used for \mcGpRuleN values of 3 and 4, as described in the next entry (default is 0).

\mcGpRuleN

Type of horizontal spacing between columns in a matrix (default is 0).

N Column spacing between rows Example

0	Single line gap (one em)	e	e d
1	1.5 line gap	a e	b d
2	2 line gap	a o	b d
3	Exactly equal to the \mcGpN value measured in twips. Here that value is 480 twips (24 pts).	a e	h d
4	Multiple of the \mcGpN value measured in half lines. Here that value is 3.	e e	d

\mchr

Combining diacritical mark character attached to base of accent object or n-ary operator character (default accent character is U+0302 (\hat); default n-ary operator is U+222B (\int)).

Examples of accent characters are the dot, hat, and arrow in the following cases: $\dot{a} = \vec{a} \cdot \vec{a}$.

\mcount

Matrix column count

 \mbox{mcSpN}

Minimum spacing between edge of a column and corresponding edge of adjacent column. Additional spacing can be added to enhance appearance (default is '0').

Example: The following matrix specifies that there should never be fewer than 6 pts. Between adjacent column edges:

 α b

\mctrlPr

Character format properties group; goes inside every object's properties group. Examples of control characters are n-ary operators (excluding their limits and bases), fraction bars (excluding the numerator and denominator), and grouping characters (excluding the base). \mathbb{mctrlPr} allows formatting properties to be stored on these control characters. The control character inherits its formatting from the paragraph formatting; \mathbb{mctrlPr} contains the formatting differences between the control character and the paragraph formatting.

\md

Delimiter object, consisting of opening and closing delimiters (such as parentheses, braces, brackets, and vertical bars), and an element contained inside. May have separator character(s) between additional elements.

For example, consider a:

Delimiter with one base: (x2)

Delimiter with more than one base and separators: $(x^2|y^2)$

\mdefJc*N*

Document property for the default justification of displayed math zones. Individual equations can overrule the default setting. Displayed math zones can be left justified (N = 3), right justified (N = 4), centered (N = 4), or centered as a group (N = 4). When a displayed math zone is centered as a group, the equation(s) are left aligned within a block, and the entire block is centered with respect to column margins.

\mdeg

Degree argument in radical object. For example the 3 in $\sqrt[3]{x}$. This control word is optional. When omitted, the square root function, as in \sqrt{x} , is assumed.

\mdegHide

Whether to hide degree argument. Every **\mrad** has a **\mdeg**, but the **\mdeg** can appear or not appear. When **\mdegHide** is set to "on", the degree is not shown, as in \sqrt{x} . When **\mdegHide** is omitted, the default is "off"; that is, the degree is not hidden.

\mden

Denominator argument in fraction object. For example, the b in a/b.

\mdiff

Specifies the differential property on **\mbox**. When set to on, the **\mbox** acts as a differential, and receives the appropriate horizontal spacing for the mathematical differential. When this property is omitted, the **\mbox** is not treated as a differential.

Example: The following example shows an **mbox** containing dx and having the **mdiff** property on (notice that a thin space automatically appears between the x and the dx):

$$\int_{0}^{2} x \, dx$$

Note: using the differential d character \dd (U+2146) gets the same spacing.

\mdiffStvN

Specifies document math style to display the differential <code>d</code> and related characters (U+2145..U+2149). Word 2007 doesn't understand this keyword and uses math italic.

N = 0 or \mathbf{M} Math italic is used (the convention in US technical journals).

is missing

N = 1 Upright style is used (often the convention in European

iournals)

N = 2 Open-face italic is used (Mathematica convention) as in d

\mdispDef/V

Document property to overwrite (N = 1) paragraph settings for equations, i.e., use values given by $\mathbf{MIMarginN}$, $\mathbf{MrMarginN}$, $\mathbf{MdefJcN}$, $\mathbf{MwrapIndentN}$, $\mathbf{MrmapRightN}$, etc. Default is 1. N = 0 uses the paragraph settings.

\mdPr

Delimiter object properties group including enclosing and separating characters. Specifically, this control word specifies the properties of **\md**, including the enclosing and separating characters, and the properties that affect the shape of the delimiters.

\me

Base argument "element" appearing in all mathematical objects except \mf.

For example, the \mfunc sin has \mfName \sin and \me s.

\mendChr

Ending, or closing, delimiter character. Mathematical delimiters are enclosing characters such as parentheses, brackets, and braces. If this control word is omitted, the default $\mbox{\bf mendChr}$ is ')'. The expression $\mbox{\bf M}$ uses $\{\mbox{ and }\}$ as its enclosing characters.

\meqArr

Equation-Array object, consisting of one or more equations that can be vertically justified as a unit respect to surrounding text on the line. Alignment of multiple points within each equation can occur within the equation array.

Example: An example of an equation array with alignment points is:

$$x - y + z = 10$$

 $3x + y + 2z = 34$
 $-5x + 2y - z = -14$

Notice that the variables, operators, and tens digits of the sums line up properly.

\meqArrPr

Equation-Array object properties group; specifies the properties of the equation array object, including the vertical justification of the object and layout inside the object.

\mf

Fraction object, consisting of a numerator and denominator separated by a fraction bar (unless {\mfPr...} includes {\mtype noBar})

\mfName

Function name argument of the Function-Apply object

\mfPr

Fraction object properties group. Specifically, this control word specifies the properties of the fraction function \mf. Properties of the Fraction function include the type or style of the fraction. The fraction bar can be horizontal or diagonal, depending on the fraction properties. The fraction object is also used to represent the stack function, which places one control word above another, with no fraction bar.

Example:

Stacked Fraction: $\frac{a}{b}$ Skewed Fraction: a/bLinear Fraction: a/b

Stack Object (No-Bar Fraction):

\mfunc

Function-Apply object used for math functions like sin.*. Specifically, this control word destination contains a function name \mfName and a base argument \me.

Examples of Function-Apply objects: $\sin x$, $\tan^{-1} x^2$, and $\max_{0 \le x \le 1} x e^{-x^2}$.

\mfuncPr

Function-Apply object properties group; specifies properties such as **\mctrlPr** that can be that is stored on the function apply object **\mfunc**.

Group Character object used for stretching a character above or below other characters. \mgroupChr

Example: + + +

\mgroupChrPr Group Character object properties group. Specifies the properties of the Group-Character

control word \mqroupChr. These properties can be used to specify the character placed above or below the argument, and the position of the character. When omitted, U+23DF

n-ary object property specifying whether n-ary operators grow. When omitted or set to \mgrow off, n-ary operators such as integrals and summations do not grow to match the size of

their operand height. When set to on ($\{\mbox{\em mgrow on}\}$), the *n*-ary operator grows

vertically to match its operand height.

Example: The two integrals below demonstrate the difference between omitting \mgrow and including {\mgrow on}.

$$\int_0^1 \frac{x^2}{x+y} dx \int_0^1 \frac{y^2}{x+y} dy$$

\mhideBot Specifies the hidden or shown state of the bottom edge of \mborderBox. When this

control word is omitted, the bottom edge is shown. When set to on ({\mhideBot on}),

the bottom border is hidden, as in $\alpha + b$.

Specifies the hidden or shown state of the left edge of \mborderBox. When this control \mhideLeft word is omitted, the left edge is shown. When set to on, the left border is hidden, as in

\mhideRight Specifies the hidden or shown state of the right edge of \mborderBox. When this control

word is omitted, the right edge is shown. When set to on, the right border is hidden, as in

Specifies the hidden or shown state of the top edge of \mborderBox. When this control \mhideTop

word is omitted, the top edge is shown. When set to on, the top border is hidden, as in

\minterSpN

Spacing between equations within a display math paragraph, in twips. (Default is 0; not

written by Word 2007.)

\mintLim/V Document setting for default placement of integral limits when converting from linear format to professional (built-up) format in display mode (not inline). Limits can be either

centered above and below the integral, or positioned just to the right of the operator, as

x dx x dx

When an integral object is written in linear format, e.g., $\int_{-\mathbb{R}} a dt$, the placement of limits is ambiguous. \mintLimN specifies the default positioning. When this control word is omitted or N = 0, the integral limits are placed to the right of the integral sign. When N = 01, they are placed above and below.

Document property giving intraequation spacing between consecutive display math \mintraSpN

paragraphs, in twips. (Default is 0; not written by Word 2007.) \mjc/V

Justification of a math paragraph; specifies justification of the math paragraph (a series of adjacent equations within the same paragraph). A math paragraph can be Left Justified (N = 3), Right Justified (N = 4), Centered (N = 2), or Centered as Group (N = 1). If this control word is omitted, the math paragraph is Centered as Group. This means that the equations can be aligned with respect to each other, but the entire group of equations is

centered as a whole.

Example: An example of Centered as Group is the following example, in which each equation is left-aligned, but the series is centered:

 $x = x_1 + x_2 + x_3 + \cdots$ $y=y_1+y_2+y_3+y_4+\cdots$ $z=z_1+z_2+z_3+z_4+z_5+\cdots$

\mlim Limit argument of a \mlimLow or \mlimUpp control words. *Example*: The limit argument of the **\milimLow** $\lim_{n\to\infty}$ is $n\to\infty$.

 $\mbox{\continuous}$ Location of limits in n-ary operators. Limits can be either centered above and below n-ary

operator, or positioned just to the right of the operator as in:

$$\sum_{i=0}^{n} \alpha_{i} \sum_{i=0}^{n} \alpha_{i},$$

\mlimLow Lower limit object; consisting of text on the baseline and reduced-size text immediately

below it.

Example: $\lim_{n\to\infty}$ and $\max_{0\le n\le 2}$

\mlimLowPr Lower limit object properties group; specifies control properties (\mctrlPr) that can be

stored on the Lower Limit (\mlimLow).

\mlimUpp Upper limit object; consisting of text on the baseline and reduced-size text immediately

above it.

Example: $\overline{x+x+\cdots+x}$ and \equiv

\mlimUppPr Upper limit object properties group; specifies control properties (\mctrlPr) that can be

stored on the Upper Limit (\mlimUpp).

\mlit Property specifying that characters in a run are literal; i.e.,, they are to be interpreted

literally without special mathematical meaning such as operators or characters that

trigger conversion to 2-dimensional format

\mlMarginN Document property for the left margin for math, in twips. Math margins are added to the

paragraph settings for margins.

\mm Matrix object, containing at least one element laid out in one or more rows and one or

more columns. Note: $\mbox{\sc hmm}$ doesn't include surrounding parentheses or brackets; for

these embed the \mm inside an \md object.

Example:
$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \\ 5 & 6 \end{pmatrix}$$
 and $\begin{bmatrix} 1 & 1 \end{bmatrix}$

\mmath Math zone group containing math paragraph or inline math zone

\mmathFontN Specifies default math font to be used in the document. **N** is the \fonttbl index of the font

\mmathPict Picture group used by readers not understanding \moMath group

\mmathPr Destination for document-level math properties

\mmaxDist Equation Array Maximum Distribution. When set to on, the equation array is spaced to

maximum width of containing element (page, column, cell). When this control word is

omitted, Equation Array Maximum Distribution is 0.

\mmc Matrix (\mm)single column group

\mmcJc Justification of a matrix column (or group of matrix columns) \mc. When this control

word is omitted, the column is centered.

The matrix below is inside a \md object and has three columns. The leftmost column is left-aligned {\mmcJc left}, the rightmost column is right-justified {\mmcJc right}, and the center column is centered {\mmcJc center}:

(1 1 1)

Example: A simple example of this property in use is a 2×2 matrix with both columns centered (this matrix is also inside an **\md** object):

 $\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$

\mmcPr Matrix single column properties; specifies the properties of the matrix column, including the number of columns and the type of justification.

Example: As an extreme example, the following matrix has two columns that are left

justified (count is 2) and three columns that are right justified (count is 3).

$$\begin{pmatrix}1&1&1&1&1\\23&23&23&23&23\\456&456&456&456&456\end{pmatrix}$$

\mmcs Matrix (\mm) columns group; specifies the collection of columns of the matrix

Example: An example of this control word in use is:

 $\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$

\mmPr Matrix object properties group; specifies properties of the matrix \mm, including the

justification of the matrix and the layout of control words within the matrix.

\mmr Single row of matrix object

Example: An example of this control word in use is the following example, a 2x2 matrix. There are two rows; the first contains the 1 and 2; the second contains 3 and 4.

 $\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$

\mnary n-ary object consisting of an n-ary object, a base (or operand), and optional upper and

lower limits.

Examples of *n*-ary objects are: $\int_0^1 x \ dx$, $\sum_k \binom{n}{k} \alpha_k$, $\prod_{k=1}^n A_k$ and $\bigcup_{n=1}^m (X_n \cap Y_n)$

\mnaryLimN Document setting for default placement of n-ary limits other than integrals when

converted from <u>linear format</u> to Professional (built-up) format in display mode. Limits can be either centered above and below the n-ary operator (N = 1), or positioned just to the

right of the operator (N = 0), as in

$$\sum_{i=0}^{n} \alpha_{i} \text{ and } \sum\nolimits_{i=0}^{n} \alpha_{i},$$

respectively. When this summation object is written in <u>linear format</u> as $\sum_i (i = 0)^{\Delta_{RI}}$, the placement of limits when built up in a displayed math zone is ambiguous, and

\mnaryLimN specifies the desired default positioning.

 $\mbox{\mbox{$m$n-ary object properties group; specifies the properties of the n-ary ($\mbox{\mbox{$m$n-ary object,}}$

including the type of n-ary operator that is used, the shape and height of the operator,

the location of limits, and whether limits are shown or hidden.

\mnoBreak "Unbreakable" property on \mbox object. When set to on, no line breaks can occur

within the box. This can be important for operator emulators that consist of more than one binary operator. When this control word is not specified, breaks can occur inside

\mbox.

\mnor Normal text property, that is math italic and math spacing are not applied to run. In a

normal text run, no characters will trigger reformatting of a linear expression into a two-

dimensional expression.

Example: The example below illustrates three runs of normal text:

$$rate = \frac{distance}{time}$$

\mnum Numerator argument of fraction object

\mobjDist Equation Array Object Distribution. When active, contents of equation array are spaced to

maximum width of equation array object. When this control word is omitted, the equation

array does not receive object distribution.

\moMath Destination for a displayed equation or inline mathematical expression. In a math

paragraph, each equation is enclosed in its own {*\moMath...} group and starts on its

own line.

\moMathPara Math paragraph containing one or more displayed equations within a single text

paragraph.

\moMathParaPr Math paragraph properties group; specifies properties of the math paragraph

\moMathPara, including justification \mdefJcN.

\mopEmu Operator Emulator property on box. When active, the box and its contents behave as a

single operator and inherit the properties of an operator. This means, for example, that the character can serve as a point for a line break and can be aligned to other operators. Operator Emulators are often used when one or more glyphs combine to form an operator, such as ==.

\mphant Phantom object used to introduce or suppress spacing.

Note: \mphant has two primary uses: first, adding the spacing of the phantom base \me without displaying that base, and second, suppressing ("smashing") part of the glyph from spacing considerations.

\mphantPr Phantom object properties group; specifies properties of the phantom function, including whether the phantom is hidden or visible, and the amount of space that is taken into

account when laying out text and objects around phantoms.

If set to 'on', hide placeholders property on a matrix \mm. When this property is on, placeholders do not appear in the matrix. If this control word is omitted, placeholders do appear such that the locations where text can be inserted are made visible.

Example: The following two matrices show the hidden and visible states of placeholders, respectively:

$$\begin{pmatrix} \mathbf{1} & & \\ & \mathbf{1} & \\ & & \mathbf{1} \end{pmatrix} \begin{pmatrix} \mathbf{1} & & \\ & \mathbf{1} & \\ & & \mathbf{1} \end{pmatrix}$$

\mpos Position of the bar in the \mbar object; the default is 'bot', signifying the mathematical

underbar. For an overbar, set $\mbox{\em mpos}$ to 'top', that is, use $\mbox{\em \em mpos}$ top}.

\mpostSpN Spacing after math paragraph, in twips (default is 0; not supported by Word 2007). \mpreSpN Spacing before math paragraph, in twips (default is 0; not supported by Word 2007).

\mr Run of math text

\mplcHide

\mrad Radical object; specifies the radical function, consisting of a radical, a base \me, and an

optional degree \mdeg.

Example: $\sqrt[n]{x}$ and \sqrt{x} .

\mradPr Radical object; specifies properties of the radical function \mrad, including the hidden or

shown state of the degree \mdeg.

\mrMarginN Right margin for math, in twips. Math margins are added to the paragraph settings for

margins.

\mrPr Run properties group; specifies the properties of the math run \mr.

\mrSpN Spacing between rows of an equation array \meqArr or matrix \mm. It is used only when \mrSpRuleN is set to 3 (exactly; in which case the unit of measure is twips) or 4

(Multiple; in which case the unit of measure is half lines). If this control word is omitted, single line spacing is used in the equation array, and no additional spacing is used in the

layout of rows.

\mrSpRuleN Row spacing rule; specifies the type of vertical spacing between rows in a matrix. The following table demonstrates possible values of \mrSpRuleN along with their definitions

and examples (default is 0):

Value	Line spacing between rows	E>	ample
0	Single line gap (one em)	1	2 4
1	1.5 line gap	1	2
		3	4
2	2 line gap	1	2
		3	4
3	Exactly equal to value of \mrSpN, measured in twins, here 360	1	2
	in twips, here 360.	3	4

Multiple of value of $\mbox{\em MrSpN}$, measured in half 4 lines, here 3. 3

\mscrN

Math alphanumeric script of characters in a run. The allowed combinations of \mstyN and \mscrN are limited to the Unicode math alphanumerics (see Unicode Technica Report #25, Section 2.1).

Value	Alphabetical script
0	Roman
1	Script
2	Fraktur
3	Double-struck
4	Sans-serif
5	Monospace

\msepChr The character that separates base arguments \me in the delimiter object \md.

If this control word is omitted, the default \msepChr is '|'.

Example: Examples of \md, each with a different \msepChr, are: $(u_1|u_r)(u_1;u_r)(u_1;u_r)$

\mshow Show property of phantom object (default: on). When inactive, the \mphant base \me is hidden. If this control word is omitted, the base \me is shown.

Example: In the following example, there is a phantom of the fraction a/b in the second radical such that only the height is preserved (includes the \mphantPr properties {\mshow off}{\mzeroWid on}). The fraction does not show.

$$\sqrt{\frac{\alpha}{b}} = \sqrt{x}$$

Shape of delimiters in delimiter object \md. Delimiters can be centered on entire height \mshp

of their contents, or their height can be altered to exactly match their contents' height.

When this control word is omitted, delimiters are 'centered'.

\msmallFracN Document property specifying reduced fraction size in display math (N = 1), such that

numerator and denominator are written in script size instead of regular-text size. The

default is for text size (N = 0).

\msPre Pre-Sub-Superscript object, which consists of a base \me along with a subscript \msub

and a superscript $\mbox{\em msup}$ placed to left of base.

\msPrePr Pre-Sub-Superscript object properties group; specifies properties such as \mctrlPr that

can be stored on the Pre-Sub-Superscript object \msPre.

\msSub Subscript object consisting of a base \me and a reduced-size \msub placed below and

to the right, as in x_{10}

Subscript object properties group; specifies properties such as \mctrlPr that can be \msSubPr

stored on the Subscript function \msSub.

\msSubSup Subscript superscript object consisting of a base \me, a reduced-size \msub placed

below and to the right, and a reduced-size \msup placed above and to the right, as in

 $X_{\rm R}^2$

\msSubSupPr Subscript superscript object properties group

\msSup Superscript object consisting of a base \me and a reduced-size \msup placed above and

to the right, as in x^2 .

\msSupPr Superscript object properties group

Hidden or shown state of a strikethrough diagonal line from bottom-left corner to top-\mstrikeBLTR

right corner of \mborderBox. When this control word is 'off' (default), the strikethrough

is not drawn as in a+b. When 'on', a strikethrough is drawn, as in a+b.

Hidden or shown state of a strikethrough horizontal line in \mborderBox When this \mstrikeH

control word is off (default), the strikethrough is not drawn. When on, a horizontal

strikethrough is drawn, as in

\mstrikeTLBR Hidden or shown state of a strikethrough diagonal line from upper-left corner to bottom-

right corner of \mborderBox When this control word is off (default), the strikethrough is not drawn. When on, a strikethrough is drawn, as in $\overline{a+b}$.

Hidden or shown state of a strikethrough vertical line in \mborderBox. When off \mstrikeV (default), a strikethrough is not drawn. When on, a strikethrough is drawn, as in

\mstyN Bold/italic styles of characters in run. The allowed combinations of \mstyN and \mscrN are limited to the Unicode math alphanumerics (see Unicode Technical Report #25, Section 2.1).

Value	Script
0	Upright
1	Bold
2	Italic
3	Bold-Itali

\msub Subscript argument of \msPre, \msSub, \msSubSup objects consisting of a base \me and a reduced-size \msub placed below and to the right, as the ** in ***₁.

\msubHide n-ary hide subscript property. When on, the lower limit does not appear, as in

$$\int_{-\infty}^{\infty} \frac{x}{x+2} dx$$

If this control word is omitted, the lower limit appears.

Superscript argument of \msPre, \msSup, \msSubSup objects consisting of a base \msup

\me and a reduced-size \msup placed below and to the right, as the 2 in x^2

 $\emph{n}\text{-}\text{ary}$ hide superscript property. When on, the upper limit does not appear, as in \msupHide

If this control word is omitted, the lower limit appears.

\mtransp Specifies that a phantom \mphant is transparent for spacing. This means that if the contents of the phantom belong to a special spacing class, such as binary operators,

relational operators, or differentials, that spacing class participates in the layout calculations. If transparency is off (default), then the content's spacing class is ignored. In the following example, transparency is off for the visible phantom around the differential term, and hence there is no automatic thin space between the * and dx:

Turning transparency on with {\mtransp on}, we see a thin space

x dx

Type of fraction \mf. The default is 'bar'. Valid fraction \mtype attributes are:

Type of fraction	String	Example	
Stacked	bar		$\frac{a}{b}$
Linear	lin		a/b
Skewed	skw		a/b
Stacked, no bar	nobar		a h

Along with \mpos of \mgroupChrPr, specifies the vertical layout of the \mgroupChr object. Where \mpos specifies the position of the grouping character, \mvertJc specifies the alignment of the object with respect to the baseline.

> For example, when the group character is above the object, \mvertJc of top signifies that the top of the object falls on the baseline; when \mvertJc is set to bot, the bottom of the object is on the baseline. The table below demonstrates the four possible combinations of \mgroupChr layout:

\mtype

\mvertJc

\mpos	\mvertJc	layout
top	top	$a \leftarrow e$
top	bot	a bod e
bot	top	a <u>bod</u> e
bot	bot	$\alpha \xrightarrow{\text{yields}} b$

\mwrapIndentN Indent of wrapped line of an equation in twips. The line or lines of a wrapped equation

after the line break can either be indented by a specified amount from the left margin, or

right-aligned. The default indent is 1" (1440 twips).

\mwrapRightN = 1, right justify wrapped lines of an equation. If this control word is omitted, the

line or lines of a wrapped equation after the line break are indented by \mwrapIndentN

from the left margin.

\mzeroAsc If on, phantom has zero ascent. In the following example, the differential term is

contained in a phantom that zero ascent. As a result, spacing is reduced between the top

of the \vec{a} and the radical bar: $\sqrt{x \, dx}$ as compared to $\sqrt{x \, dx}$

This control word is off by default ({\mzeroAsc off}).

\mzeroDesc If on, phantom has zero descent.

Example: In the following product, the second radical has a zero descent for the y. This

causes the second radical to be smaller than the first. $\sqrt{y}\sqrt{y}$

This control word is off by default.

\mzeroWid If on, the phantom has zero width.

Example: In the following example, the second radical contains a zero-width phantom of the fraction $\frac{\pi}{2}$. Accordingly only the height grows to accommodate the hidden fraction:

 $\sqrt{\frac{a}{b}} = \sqrt{x}$

This control word is off by default.

Character Text

Character text has the following syntax:

<char> <ptext> | <atext> | '{' <char> '}'

<ptext> ((<chrfmt> | <chshading> | <chrev>)* <data>+)+

<idx> | <toc> | <bookmark>

<uN> \uN followed by equivalent character(s) in ANSI representation (see \uN & \ucN)

Font (Character) Formatting Properties

These control words (described as <chrfmt> in the syntax description) change font (character) formatting properties. A control word preceding plain text turns on the specified attribute. Some control words (indicated in the following table by an asterisk following the description) can be turned off by appending 0 to the control word. For example, \b turns on bold, while \b0 turns off bold.

The font (character) formatting control words are listed in the following table.

of

Control word	Meaning
\plain	Reset font (character) formatting properties to a default value defined by the application (for example, bold, underline and italic are disabled; font size is reset to 12 point). The associated font (character) formatting properties (described in the section <u>Associated Character Properties</u> this Specification) are also reset.
\animtext/V	Animated text properties (note: Word 2007 ignores this control word):
	0 (none)
	1 Las Vegas Lights
	2 Blinking Background
	3 Sparkle Text
	4 Marching Black Ants
	5 Marching Red Ants
	6 Shimmer
	7 Wipe down
	8 Wipe right
\accnone	No accent characters (over dot/over comma).
\accdot	Over-dot accent.
\acccomma	Over-comma accent.
\acccircle	Over-circle accent.
\accunderdot	Under-dot accent.
\b*	Bold.
\caps*	All capitals.
\cb/V	Background color (default is 0). N specifies the color as an index of the color table. Note: Windows versions of Word have never supported this control word (see \chcbpatN for Word background color).
\cchs/V	Indicates any characters not belonging to the default document character set and indicates the character set to which they do belong to. The values for N correspond to the values for the \fcharsetN control word.
\cfN	Foreground color (default is 0). N specifies the color as an index of the color table.
\charscalex/V	Character scaling value. The $\it N$ argument is a value representing a percentage (default is 100).
\csN	Designates character style. If a character style is specified, style properties must be specified with the character run. N refers to an entry in the style table.
\cgrid <i>N</i>	Character grid.
\g	Destination related to character grids (not emitted by Word).
\gcwN	Grid column width.
\gridtbl	Destination keyword related to character grids (not emitted by Word).
\dnN	Move down N half-points (default is 6).
\embo*	Emboss.
\expndN	Expansion or compression of the space between characters in quarter-points; a negative value compresses (default is 0).
\expndtwN	Expansion or compression of the space between characters in twips; a negative value compresses. For backward compatibility, both \expndtwN and \expndN should be emitted.
\fittext/V	Fit the text in the current group in N twips. When N is set to -1 (\fittext-1), it indicates a continuation of the previous \fittextN run. In other words, {\fittext1000 Fit this} {\fittext-1 text} fits the string "Fit this text" in 1000 twips.
\f/V	Font number. $\it N$ refers to an entry in the font table.

Control word	Meaning
\fs/V	Font size in half-points (default is 24).
\i*	Italic.
\impr*	Engrave (imprint).
\kerning <i>N</i>	Point size (in half-points) above which to kern character pairs. \kerning0 turns off kerning.
\langfe/V	Applies a language to a text run. N is the language ID (see <u>standard language table</u>). The \plain control word resets the language property to the language defined by \deflangfeN in the document properties.
\langfenp <i>N</i>	Applies a language to a text run. N is the language ID. The \plain control word resets the language property to the language defined by \deflangfeN in the document properties. Usually follows \langfeN and is used when \noproof is written as explained for \langnpN .
\lang <i>N</i>	Applies a language to a text run. N is the language ID (see <u>standard language table</u>). The \plain control word resets the language property to the language defined by \deflangN in the document properties.
\langnp <i>N</i>	Applies a language to a text run. N is the language ID. The \plain control word resets the language property to the language defined by \deflangN in the document properties. It is identical to \langN , but needed when \noproof is written together with \lang1024 to preserve the language of the text that is not being checked for spelling or grammar. Usually follows \langN .
\ltrch	Character data following this control word is treated as a left-to-right run (the default).
\noproof	Do not check spelling or grammar for text in the group. Serves the function of \lang1024 (undefined language). Usually \lang1024 is emitted with it for backward compatibility with old readers.
\nosupersub	Turns off superscripting or subscripting.
\nosectexpand	Disables character space basement.
\rtlch	Character data following this control word is treated as a right-to-left run.
\outl*	Outline.
\scaps*	Small capitals.
\shad*	Shadow.
\strike*	Strikethrough.
\striked1	Double strikethrough. \striked0 turns it off.
\sub	Subscripts text and shrinks point size according to font information.
\super	Superscripts text and shrinks point size according to font information.
\ul*	Continuous underline. \ul0 turns off all underlining.
\ulc/V	Underline color.
\uld*	Dotted underline.
\uldash*	Dashed underline.
\uldashd*	Dash-dotted underline.
\uldashdd*	Dash-dot-dotted underline.
\uldb*	Double underline.
\ulhwave*	Heavy wave underline.
\ulldash*	Long dashed underline.
\ulnone	Stops all underlining.
\ulth*	Thick underline.
\ulthd*	Thick dotted underline.

Control word	Meaning
\ulthdashd*	Thick dash-dotted underline.
\ulthdashdd*	Thick dash-dot-dotted underline.
\ulthldash*	Thick long dashed underline.
\ululdbwave*	Double wave underline.
\ulw*	Word underline.
\ulwave*	Wave underline.
\upN	Move up N half-points (default is 6).
\v*	Hidden text.
\webhidden	Indicates that the text in the group is hidden in the Word 2002 Web View and will not be emitted upon saving as Web page.

The following table defines the standard language indentifiers used by Microsoft. This table was generated by the Unicode group for use with TrueType and Unicode.

Language	ID (Hexadecimal)	ID (Decimal)
Afrikaans (South Africa)	0x436	1078
Albanian (Albania)	0x41c	1052
Alsatian (France)	0x484	1156
Amharic (Ethiopia)	0x45e	1118
Arabic (Algeria)	0x1401	5121
Arabic (Bahrain)	0x3c01	15361
Arabic (Egypt)	0x0c01	3073
Arabic (Iraq)	0x0801	2049
Arabic (Jordan)	0x2c01	11265
Arabic (Kuwait)	0x3401	13313
Arabic (Lebanon)	0x3001	12289
Arabic (Libya)	0x1001	4097
Arabic (Morocco)	0x1801	6145
Arabic (Oman)	0x2001	8193
Arabic (Qatar)	0x4001	16385
Arabic (Saudi Arabia)	0x0401	1025
Arabic (Syria)	0x2801	10241
Arabic (Tunisia)	0x1c01	7169
Arabic (U.A.E.)	0x3801	14337
Arabic (Yemen)	0x2401	9217
Armenian (Armenia)	0x42b	1067
Assamese (India)	0x44d	1101
Azeri (Cyrillic, Azerbaijan)	0x82c	2092
Azeri (Latin, Azerbaijan)	0x42c	1068
Bashkir (Russia)	0x46d	1133
Basque (Basque)	0x42d	1069
Belarusian (Belarus)	0x423	1059
Bengali (Bangladesh)	0x845	2117

Bengali (India)	0x445	1093
BosniaHerzegovina	0x101a	4122
Bosnian (Cyrillic, Bosnia and Herzegovina)	0x201a	8218
Bosnian (Latin, Bosnia and Herzegovina)	0x141a	5146
Breton (France)	0x47e	1150
Bulgarian (Bulgaria)	0x402	1026
Burmese	0x455	1109
Catalan (Catalan)	0x403	1027
Cherokee	0x45c	1116
Chinese (Hong Kong S.A.R.)	0xc04	3076
Chinese (Macao S.A.R.)	0x1404	5124
Chinese (PRC)	0x804	2052
Chinese (Singapore)	0x1004	4100
Chinese (Taiwan)	0x404	1028
Corsican (France)	0x483	1155
Croatian (Croatia)	0x41a	1050
Croatian (Latin, Bosnia and Herzegovina)	0x101a	4122
CustomCurrent	0x0c00	3072
Czech (Czech Republic)	0x405	1029
Danish (Denmark)	0x406	1030
Dari (Afghanistan)	0x48c	1164
Divehi (Maldives)	0x465	1125
Dutch (Belgium)	0x813	2067
Dutch (Netherlands)	0x413	1043
DutchPreferred	0x013	19
Dzongkha	0x851	2129
Edo	0x466	1126
English (Australia)	0xc09	3081
English (Belize)	0x2809	10249
English (Canada)	0x1009	4105
English (Caribbean)	0x2409	9225
English (Hong Kong S.A.R.)	0x3c09	15369
English (India)	0x4009	16393
English (Indonesia)	0x3809	14345
English (Ireland)	0x1809	6153
English (Jamaica)	0x2009	8201
English (Malaysia)	0x4409	17417
English (New Zealand)	0x1409	5129
English (Republic of the Philippines)	0x3409	13321
English (Singapore)	0x4809	18441
English (South Africa)	0x1c09	7177
English (Trinidad and Tobago)	0x2c09	11273
English (United Kingdom)	0x809	2057

English (United States)	0x409	1033
English (Zimbabwe)	0x3009	12297
Estonian (Estonia)	0x425	1061
Faroese (Faroe Islands)	0x438	1080
Filipino (Philippines)	0x464	1124
Finnish (Finland)	0x40b	1035
French (Belgium)	0x80c	2060
French (Cameroon)	0x2c0c	11276
French (Canada)	0xc0c	3084
French (Congo (DRC))	0x240c	9228
French (Cote d'Ivoire)	0x300c	12300
French (France)	0x40c	1036
French (Haiti)	0x3c0c	15372
French (Luxembourg)	0x140c	5132
French (Mali)	0x340c	13324
French (Monaco)	0x180c	6156
French (Morocco)	0x380c	14348
French (Reunion)	0x200c	8204
French (Senegal)	0x280c	10252
French (Switzerland)	0x100c	4108
French (West Indies)	0x1c0c	7180
Frisian (Netherlands)	0x462	1122
Fulfulde	0x467	1127
Gaelic (Ireland)	0x83c	2108
Gaelic (Scotland)	0x43c	1084
Galician (Galician)	0x456	1110
Georgian (Georgia)	0x437	1079
German (Austria)	0xc07	3079
German (Germany)	0x407	1031
German (Liechtenstein)	0x1407	5127
German (Luxembourg)	0x1007	4103
German (Switzerland)	0x807	2055
Greek (Greece)	0x408	1032
Greenlandic (Greenland)	0x46f	1135
Guarani	0x474	1140
Gujarati (India)	0x447	1095
Hausa (Latin, Nigeria)	0x468	1128
Hawaiian	0x475	1141
Hebrew (Israel)	0x40d	1037
Hindi (India)	0x439	1081
Hungarian (Hungary)	0x40e	1038
Ibibio (Nigeria)	0x469	1129
Icelandic (Iceland)	0x40f	1039

Igbo (Nigeria)	0x470	1136
Indonesian (Indonesia)	0x421	1057
Inuktitut (Latin, Canada)	0x85d	2141
Inuktitut (Syllabics, Canada)	0x45d	1117
isiXhosa (South Africa)	0x434	1076
isiZulu (South Africa)	0x435	1077
Italian (Italy)	0x410	1040
Italian (Switzerland)	0x810	2064
Japanese (Japan)	0x411	1041
Kannada (India)	0x44b	1099
Kanuri	0x471	1137
Kashmiri	0x860	2144
Kashmiri (Arabic)	0x460	1120
Kazakh (Kazakhstan)	0x43f	1087
Khmer (Cambodia)	0x453	1107
K'iche (Guatemala)	0x486	1158
Kinyarwanda (Rwanda)	0x487	1159
Kiswahili (Kenya)	0x441	1089
Konkani (India)	0x457	1111
Korean (Korea)	0x412	1042
Kyrgyz (Kyrgyzstan)	0x440	1088
Lao (Lao P.D.R.)	0x454	1108
Latin	0x476	1142
Latvian (Latvia)	0x426	1062
Lithuanian (Lithuania)	0x427	1063
LithuanianTrad	0x827	2087
Lower Sorbian (Germany)	0x82e	2094
Luxembourgish (Luxembourg)	0x46e	1134
Macedonian (Former Yugoslav Republic of Macedonia)	0x42f	1071
Malay (Brunei Darussalam)	0x83e	2110
Malay (Malaysia)	0x43e	1086
Malayalam (India)	0x44c	1100
Maldivian	0x465	1125
Maltese (Malta)	0x43a	1082
Manipuri	0x458	1112
Maori (New Zealand)	0x481	1153
Mapudungun (Chile)	0x47a	1146
Marathi (India)	0x44e	1102
Mohawk (Mohawk)	0x47c	1148
Mongolian (Cyrillic, Mongolia)	0x450	1104
Mongolian (Traditional Mongolian, PRC)	0x850	2128
Nepali (India)	0x861	2145
Nepali (Nepal)	0x461	1121

(none)	0x400, 0	1024, 0
Norwegian, Bokmål (Norway)	0x414	1044
Norwegian, Nynorsk (Norway)	0x814	2068
Occitan (France)	0x482	1154
Oriya (India)	0x448	1096
Oromo	0x472	1138
Papiamentu	0x479	1145
Pashto (Afghanistan)	0x463	1123
Persian	0x429	1065
Polish (Poland)	0x415	1045
Portuguese (Brazil)	0x416	1046
Portuguese (Portugal)	0x816	2070
Punjabi (India)	0x446	1094
Punjabi (Pakistan)	0x846	2118
Quechua (Bolivia)	0x46b	1131
Quechua (Ecuador)	0x86b	2155
Quechua (Peru)	0xc6b	3179
Romanian (Moldova)	0x818	2072
Romanian (Romania)	0x418	1048
Romansh (Switzerland)	0x417	1047
Russian (Moldova)	0x819	2073
Russian (Russia)	0x419	1049
Sami, Inari (Finland)	0x243b	9275
Sami, Lule (Norway)	0x103b	4155
Sami, Lule (Sweden)	0x143b	5179
Sami, Northern (Finland)	0xc3b	3131
Sami, Northern (Norway)	0x43b	1083
Sami, Northern (Sweden)	0x83b	2107
Sami, Skolt (Finland)	0x203b	8251
Sami, Southern (Norway)	0x183b	6203
Sami, Southern (Sweden)	0x1c3b	7227
Sanskrit (India)	0x44f	1103
Serbian (Cyrillic, Bosnia and Herzegovina)	0x1c1a	7194
Serbian (Cyrillic, Serbia)	0xc1a	3098
Serbian (Latin, Bosnia and Herzegovina)	0x181a	6170
Serbian (Latin, Serbia)	0x81a	2074
Sesotho sa Leboa (South Africa)	0x46c	1132
Setswana (South Africa)	0x432	1074
Sindhi (Arabic)	0x859	2137
Sindhi (Devanagari)	0x459	1113
Sinhala (Sri Lanka)	0x45b	1115
Slovak (Slovakia)	0x41b	1051
Slovenian (Slovenia)	0x424	1060

Somali	0x477	1143
Spanish (Argentina)	0x2c0a	11274
Spanish (Bolivia)	0x400a	16394
Spanish (Chile)	0x340a	13322
Spanish (Colombia)	0x240a	9226
Spanish (Costa Rica)	0x140a	5130
Spanish (Dominican Republic)	0x1c0a	7178
Spanish (Ecuador)	0x300a	12298
Spanish (El Salvador)	0x440a	17418
Spanish (Guatemala)	0x100a	4106
Spanish (Honduras)	0x480a	18442
Spanish (Mexico)	0x80a	2058
Spanish (Nicaragua)	0x4c0a	19466
Spanish (Panama)	0x180a	6154
Spanish (Paraguay)	0x3c0a	15370
Spanish (Peru)	0x280a	10250
Spanish (Puerto Rico)	0x500a	20490
Spanish (Spain, International Sort)	0xc0a	3082
Spanish (Spain, Traditional Sort)	0x40a	1034
Spanish (United States)	0x540a	21514
Spanish (Uruguay)	0x380a	14346
Spanish (Venezuela)	0x200a	8202
Sutu (South Africa)	0x430	1072
Swedish (Finland)	0x81d	2077
Swedish (Sweden)	0x41d	1053
Syriac (Syria)	0x45a	1114
Tajik (Cyrillic, Tajikistan)	0x428	1064
Tamazight (Arabic, Morocco)	0x45f	1119
Tamazight (Latin, Algeria)	0x85f	2143
Tamil (India)	0x449	1097
Tatar (Russia)	0x444	1092
Telugu (India)	0x44a	1098
Thai (Thailand)	0x41e	1054
Tibetan (PRC)	0x451	1105
Tigrigna (Eritrea)	0x873	2163
Tigrigna (Ethiopia)	0x473	1139
Tsonga	0x431	1073
Turkish (Turkey)	0x41f	1055
Turkmen (Turkmenistan)	0x442	1090
Uighur (PRC)	0x480	1152
Ukrainian (Ukraine)	0x422	1058
Upper Sorbian (Germany)	0x42e	1070
Urdu (Islamic Republic of Pakistan)	0x420	1056

Urdu (India)	0x820	2080
Uzbek (Cyrillic, Uzbekistan)	0x843	2115
Uzbek (Latin, Uzbekistan)	0x443	1091
Venda	0x433	1075
Vietnamese (Vietnam)	0x42a	1066
Welsh (United Kingdom)	0x452	1106
Wolof (Senegal)	0x488	1160
Xhosa	0x434	1076
Yakut (Russia)	0x485	1157
Yi (PRC)	0x478	1144
Yiddish	0x43d	1085
Yoruba (Nigeria)	0x46a	1130

To read negative **\expndN** values from Macintosh Word 5.1 (1992) and earlier, an RTF reader should use only the low-order 6 bits of the value read. These versions do not emit negative values for **\expndN**. Instead, they treat values from 57 through 63 as -7 through -1, respectively (the low-order 6 bits of 57 through 63 are the same as -7 through -1). MacWord 6.0 on was based on the Word for Windows and interprets **\expndN** the same way.

Character Borders and Shading

Character shading has the following syntax:

<chshading></chshading>	(\chshdngN <pat>) \chcfpatN? \chcbpatN?</pat>
<pat></pat>	\chbghoriz \chbgvert \chbgfdiag \chbgbdiag \chbgcross \chbgdcross \chbgdkhoriz \chbgdkvert \chbgdkfdiag \chbgdkbdiag \chbgdkcross \chbqdkdcross

Control word	Meaning
\chbrdr	Character border (border always appears on all sides).
\chshdng/V	Character shading. The ${\it N}$ argument is a value representing the shading of the text in hundredths of a percent.
\chcfpat/V	${\it N}$ is the pattern background color index.
\chcbpat <i>N</i>	${\it N}$ is the pattern foreground color index.
\chbghoriz	Specifies horizontal background pattern for the text.
\chbgvert	Specifies vertical background pattern for the text.
\chbgfdiag	Specifies forward diagonal background pattern for the text (\\\).
\chbgbdiag	Specifies backward diagonal background pattern for the text (////).
\chbgcross	Specifies cross background pattern for the text.
\chbgdcross	Specifies diagonal cross background pattern for the text.
\chbgdkhoriz	Specifies dark horizontal background pattern for the text.
\chbgdkvert	Specifies dark vertical background pattern for the text.
\chbgdkfdiag	Specifies dark forward diagonal background pattern for the text (\\\).
\chbgdkbdiag	Specifies dark backward diagonal background pattern for the text (////).
\chbgdkcross	Specifies dark cross background pattern for the text.
\chbgdkdcross	Specifies dark diagonal cross background pattern for the text.

The color, width, and border style keywords for character borders are the same as the keywords for paragraph borders.

Character Revision Mark Properties

These properties have the syntax and control words defined by

<chrev> \revised? \revauthN? \crauthN? \crauthN? \deleted? \revauthdelN?

\revdttmdelN? \mvf? \mvt? \mvauthN? \mvdateN?

Control word	Meaning
Track Changes ((Revision Mark) Properties
\deleted	Text has been deleted since revision marking was turned on.
\revised	Text has been added since revision marking was turned on.
\crauth/V	Index into revision table. The content of the $\it N$ th group in the revision table is considered to be the author of that revision.
	Note This keyword is used to indicate formatting revisions, such as bold, italic.
\crdateN	Time of revision. The 32-bit DTTM structure is emitted as a long integer.
\revauth <i>N</i>	Index into revision table. The content of the $\it N$ th group in the revision table is considered to be the author of that revision.
\revdttm/V	Time of revision. The 32-bit DTTM structure is emitted as a long integer.
\revauthdelN	Index into revision table. The content of the $\it N$ th group in the revision table is considered to be the author of that deletion.
\revdttmdel <i>N</i>	Time of deletion. The 32-bit DTTM structure is emitted as a long integer.
\mvf	Text has been moved to another location (is part of a "Move From") since revision marking was turned on. This is only valid inside a "Move From" bookmark (see \mvfmf and \mvfml).
	Note: Deletion keywords (\deleted, \revauthdelN) are emitted as well so that move-unaware applications can understand the revision as a deletion. These keywords can be ignored by moveaware applications.
\mvt	Text has been moved from another location (is part of a "Move To") since revision marking was turned on. This is only valid inside a "Move To" bookmark (see \mvtof and \mvtol).
	Note: Insertion keywords (\revised, \revauthN) are emitted as well so that move-unaware applications can understand the revision as an insertion. These auxiliary keywords can be ignored by move-aware applications.
\mvauth <i>N</i>	Index into revision table. The contents of the N^{th} group in the revision table is considered to be the author of that move.
\mvdate <i>N</i>	Time of move. The 32-bit DTTM structure is emitted as a long integer.

Associated Character Properties

Bidirectional-aware text processors often need to associate a Latin (or other left-to-right) font with an Arabic or Hebrew (or other right-to-left) font. The association is needed to match commonly used pairs of fonts in name, size, and other attributes. Although RTF defines a broad variety of associated character properties, any implementation may choose not to implement a particular associated character property and share the property between the Latin and Arabic fonts.

South Asian (complex script) runs of text share associated properties with right-to-left runs, but they are considered left-to-right.

Property association uses the following syntax:

```
<atext>
                 <|trrun> | <rt|run> | <sarun> | <nonsarun> | <saltrrun> | <nonsaltrrun> |
                 <nonsartlrun> | <losbrun> | <hisbrun> | <dbrun>
<ltrrun>
                 \rtlch \afN & <aprops>* \ltrch <ptext>
<rtlrun>
                 \ltrch \afN & <aprops>* \rtich <ptext>
<sarun>
                 \fcs0 \afN & <aprops>* \fcs1 <ptext>
<nonsarun>
                 \fcs1 \afN & <aprops>* \fcs0 <ptext>
<saltrrun>
                 \rtlch \fcs0 \af & <aprops>* \ltrch \fcs1 <ptext>
<nonsaltrrun>
                 \rtlch \fcs1 \af & <aprops>* \ltrch \fcs0 <ptext>
                 \ltrch \fcs1 \af & <aprops>* \rtlch \fcs0 <ptext>
<nonsartlrun>
<losbrun>
                 \hich \afN & <aprops> \dbch \afN & <aprops> \loch <ptext>
<hishrun>
                 \loch \afN & <aprops> \dbch \afN & <aprops> \hich <ptext>
<dbrun>
                 \loch \afN & <aprops> \hich \afN & <aprops> \dbch <ptext>
```

The following are some examples of property association. The first example is a right-to-left run. Text will use the default bidirectional font, and will be underlined. The left-to-right font associated with this run is font 2 (in the font table) with bold and underlining.

\ltrch\af2\ab\au\rtlch\u Sample Text

The next example is a left-to-right run. The right-to-left font and the left-to-right font use the default font (specified by \deffN).

\plain\rtlch\ltrch Sample Text

The following example is a left-to-right run. The right-to-left font is font 5, bold and italic. The left-to-right font is the default font, underlined. If the reader does not support underlining in the associated font, both fonts will be underlined.

 \t \rtlch\af5\ab\ai\ltrch\u Sample Text

The property association control words (described as <aprops> in the syntax description) are listed in the following table. Some control words (indicated in the table by an asterisk following the description) can be turned off by appending 0 to the control word.

Control word	Meaning
\ab*	Associated font is bold.
\acaps*	Associated font is all capitals.
\acf/V	Associated foreground color (default is 0).
\adnN	Associated font is subscript position in half-points (default is 6).
\aexpnd <i>N</i>	Expansion or compression of the space between characters in quarter-points; a negative value compresses (default is 0).
\afN	Associated font number (default is 0).
\afs/V	Associated font size in half-points (default is 24).
\ai*	Associated font is italic.
\alang <i>N</i>	Language ID (see the standard language table) for the associated font.
\aoutl*	Associated font is outline.
\ascaps*	Associated font is small capitals.

Control word	Meaning
\ashad*	Associated font is shadow.
\astrike*	Associated font is strikethrough.
\aul	Associated font is continuous underline. \aul0 turns off all underlining for the alternate font.
\auld	Associated font is dotted underline.
\auldb	Associated font is double underline.
\aulnone	Associated font is no longer underlined.
\aulw	Associated font is word underline.
\aupN	Superscript position in half-points (default is 6).
\fcsN	N=1 means South East Asian complex script; $N=0$ means not South East Asian script
\loch	The text consists of single-byte low-ANSI ($0x00-0x7F$) characters.
\hich	The text consists of single-byte high-ANSI (0x80-0xFF) characters.
\dbch	The text consists of double-byte characters.

Highlighting

This property applies highlighting to text. The formatting is not a character format, so it cannot be part of a style definition.

Control word	Meaning	
\highlightN	Highlights the specified text. $\it N$ specifies the color as an index of the color table.	

Special Characters

The RTF Specification includes control words for special characters (described as <spec> in the character-text syntax description). If a special-character control word is not recognized by the RTF reader, it is ignored and the text following it is considered plain text. The RTF Specification is flexible enough to allow new special characters to be added for interchange with other software.

The special RTF characters are listed in the following table (<spec> is any one of these).

Control word	Meaning
\chdate	Current date (as in headers).
\chdpl	Current date in long format (for example, Wednesday, February 20, 2008).
\chdpa	Current date in abbreviated format (for example, Wed, Feb 20, 2008).
\chtime	Current time (as in headers).
\chpgn	Current page number (as in headers).
\sectnum	Current section number (as in headers).
\chftn	Automatic footnote reference (footnotes follow in a group).
\chatn	Annotation reference (annotation text follows in a group).
\chftnsep	Anchoring character for footnote separator.
\chftnsepc	Anchoring character for footnote continuation.
\cell	End of table cell.
\nestcell	End of nested table cell.
\row	End of table row.

Control word	Meaning	
\nestrow	End of nested table row.	
\par	End of paragraph.	
\sect	End of section and paragraph.	
\page	Required page break.	
\column	Required column break.	
\line	Required line break (no paragraph break).	
\lbr/V	Text wrapping break of type:	
	0 Default line break (just like \line)	
	1 Clear left	
	2 Clear right	
	3 Clear all	
	Whenever an \lbrN is emitted, a \line will be emitted for the benefit of old readers.	
\softpage	Nonrequired page break. Emitted as it appears in galley view.	
\softcol	Nonrequired column break. Emitted as it appears in galley view.	
\softline	Nonrequired line break. Emitted as it appears in galley view.	
\softlheight/V	Nonrequired line height. This is emitted as a prefix to each line.	
\tab	Tab character.	
\emdash	Em dash (—).	
\endash	En dash (-).	
\emspace	Non-breaking space equal to width of character "m" in current font. Some old RTF writers use the construct '{' \emspace ' }' (with two spaces before the closing brace) to trick readers unaware of \emspace into parsing a regular space. A reader should interpret this as an \emspace and a regular space.	
\enspace	Nonbreaking space equal to width of character "n" in current font. Some old RTF writers use the construct '{' \enspace' }' (with two spaces before the closing brace) to trick readers unaware of \enspace into parsing a regular space. A reader should interpret this as an \enspace and a regular space.	
\qmspace	One-quarter em space.	
\bullet	Bullet character.	
\lquote	Left single quotation mark.	
\rquote	Right single quotation mark.	
\ldblquote	Left double quotation mark.	
\rdblquote	Right double quotation mark.	
\	Formula character. (Used by Word 5.1 for the Macintosh as the beginning delimiter for a string of formula typesetting commands.)	
\~	Non-breaking space.	
\-	Optional hyphen.	
_	Non-breaking hyphen.	
\:	Specifies a subentry in an index entry.	
*	Marks a destination whose text should be ignored if not understood by the RTF reader.	
\'hh	A hexadecimal value, based on the specified character set (may be used to identify 8-bit values).	
\ltrmark	The following characters should be displayed from left to right; usually found at the start of \ltrch runs.	

Control word	Meaning
\rtlmark	The following characters should be displayed from right to left; usually found at the start of \rtlch runs.
\zwbo	Zero-width break opportunity. Used to insert break opportunity between two characters.
\zwnbo	Zero-width non-break opportunity. Used to remove break opportunity between two characters.
\zwj	Zero-width joiner. This is used for ligating (joining) characters.
\zwnj	Zero-width nonjoiner. This is used for unligating a character.

A carriage return (character value 13) or line feed (character value 10) is treated as a **\par** control if the character is preceded by a backslash. You must include the backslash; otherwise, RTF ignores the control word. (You may also want to insert a carriage-return/line feed pair without backslashes at least every 255 characters for better text transmission over communication lines.)

A tab (character value 9) should be treated as a **\tab** control word. Not all RTF readers understand this; therefore, an RTF writer should always emit the control word for tabs.

The following are the code values for the special characters listed.

Control word	Word for Windows	Apple Macintosh
\bullet	149	0xA5
\endash	150	0xD1
\emdash	151	0xD0
\lquote	145	0xD4
\rquote	146	0xD5
\ldblquote	147	0xD2
\rdblquote	148	0xD3

Hyphenation Information

When hyphenation is active, information is stored at each hyphenated position describing the kind of hyphenation. In RTF, this information is given by **\hresN** and **\chhresN** as defined in the table

Control word	Mea	ning
\hresN	Lang	guage dependent hyphenation spelling rule define
	N	Description
	0	No Hyphenation
	1	Normal Hyphenation
	2	Add letter before hyphen
	3	Change letter before hyphen
	4	Delete letter before hyphen
	5	Change letter after hyphen
	6	Delete letter before the hyphen and change the letter left preceding the hyphen

Document Variables

Document variables are definable and accessed through macros. Document variables have the following syntax:

```
<variables> '{\*' \docvar '{' <varname> '}{' <vartext> '}}'
<varname> #PCDATA
<vartext> #PCDATA
```

The control word is described in the following table.

Control word	Meaning
\ docvar	A group that defines a document variable name and its value.

Bookmarks

This destination may specify one of two control words: *\bkmkstart, which indicates the start of the specified bookmark, and *\bkmkend, which indicates the end of the specified bookmark.

Bookmarks have the following syntax:

A bookmark is shown in the following example:

```
\pard\plain \fs20 Kuhn believes that science, rather than
discovering in experience certain structured
relationships, actually creates (or already participates in)
a presupposed structure to which it fits the data.
{\bkmkstart paradigm} Kuhn calls such a presupposed
structure a paradigm.{\bkmkend paradigm}
```

The bookmark start and end are matched with the bookmark tag. In this example, the bookmark tag is "paradigm". Each bookmark start should have a matching bookmark end; however, the bookmark start and the bookmark end may be in any order.

\bkmkcolfN is used to denote the first column of a table covered by a bookmark. If it is not included, the first column is assumed. **\bkmkcollN** is used to denote the last column. If it is not used, the last column is assumed. These controls are used within the ***\bkmkstart** destination following the **\bkmkstart** control. For example, {*\bkmkstart\bkmkcolf2\bk

Move Bookmarks

Move bookmarks provide an additional mechanism for revision tracking and behave in a similar, but more complex, fashion with respect to *insertions* (**\revised**) and *deletions* (**\deleted**).

Specifically, unlike insertions and deletions, which only use character properties to mark a text run as inserted or deleted, move bookmarks use a combination of character properties and bookmarks. Character properties are used in the same way as in insertions and deletions – text is just marked to indicate that it has been moved.

Bookmarks, on the other hand, are used to signify where within the document the move is. This is needed because moved text may be edited; newly inserted or deleted² text, although within a move location, does not have the character properties for a move as it was not part of the original move. Newly typed text, for example, will either be marked through its character properties as an insertion (if you have "Track Changes" enabled) or not at all (if changes are not being tracked).

In short, bookmarks are used to determine where the move location is, and character properties are used to mark specific text runs as being part of the move.

Move bookmarks are just two different kinds of bookmarks indicating the source and the destination of a move, respectively. The move's source and destination bookmarks are matched by their unique tag (the same one that is used for matching the start and the end of the bookmark), and also contain move-specific information describing the author and date of a move.

***\mvfmf** and ***\mvtof** signify the start of a "Move From" or "Move To" bookmark, respectively. They indicate the move bookmark's unique tag³ and a hex-encoded structure describing the author and date/time of the revision.

***\mvfml** and ***\mvtol** signify the end of a "Move From" or "Move To" bookmark, respectively. They indicate the move bookmark's unique tag so that they can be matched to their corresponding bookmark start control words.

Move bookmark syntax is:

```
<movebook> <movebookstart> | <movebookend> <movebookstart> '{\*' (\mvfmf | \mvtof) #PCDATA #SDATA '}' <movebookend> '{\*' (\mvfml | \mvtol) #PCDATA '}'
```

As with normal bookmarks, the #PCDATA represents a unique tag for matching the start and the end of a bookmark, and, in moves, the source and destination locations. #SDATA represents a 6-byte structure containing the move author (the first two bytes, little-endian representation; corresponds to the same value as the one used with the \mvauthN control word) and the date/time of the move (see the DTTM bit field structure).

The following is a sample of move tracking within an RTF file:

```
{\*\mvfmf move148856603 0100768baa46} <Move source's contents> {\*\mvfml move148856603} 
{\*\mvtof move148856603 0100768baa46} <Move destination's contents> {\*\mvtol move148856603}
```

² Text can be deleted from a "Move To" location.

³ Word generates "moveN", where N is a unique number, but any alphanumeric string not longer than twenty characters is valid.

Control word Meaning *\mvfmf Signifies the start of a "Move From" bookmark. The bookmark's tag is used to link this control word with the corresponding end of the "Move From" bookmark (\mvfml)in the document and with the corresponding "Move To" bookmark (\mvtof and \mvtol). The following restrictions are applied to the use of this control word: If this control word occurs without a corresponding \mvfml control word with a matching tag, then it shall be ignored and no "Move From" bookmark exists. If this control word and its corresponding bookmark end control word (\mvfml) occur without a matching "Move To" bookmark (\mvtof and \mvtol), then moved content in this move location shall be treated as if it has been marked as deleted instead of moved. The control word and the bookmark tag are followed by the binary representation of a 6-byte structure containing the move author (the first two bytes, little-endian representation; corresponds to the same value as the one used with the \mvauthN control word) and the date/time of the move (see the DTTM bit field structure). For example, in the RTF fragment below, 0100768baa46 specifies 0x0001 for the author and 0x46aa8b76 for the date/time, which corresponds to Tue 2006-10-17 13:54). {*\mvfmf move148856603 0100768baa46} *\mvfml Signifies the end of a "Move From" bookmark. The bookmark's tag is used to link this control word with the corresponding start of the "Move From" bookmark (\mvfmf) in the document and with the corresponding "Move To" bookmark (\mvtof and \mvtol). The following restrictions are applied to the use of this control word: If this control word occurs without a corresponding \mvfmf control word with a matching tag, then it shall be ignored and no "Move From" bookmark exists. If this control word and its corresponding bookmark start control word occur without a matching "Move To" bookmark ($\backslash mvtof$ and $\backslash mvtol$), then moved content in this move location shall be treated as if it has been deleted instead of moved. Signifies the start of the "Move To" bookmark. The bookmark's tag is used to link this control *\mvtof word with the corresponding end of the "Move To" bookmark (\mvtol) in the document and with the corresponding "Move From" bookmark (\mvfmf and \mvfml). The following restrictions are applied to the use of this control word If this control word occurs without a corresponding \mvtol control word with a matching tag, then it shall be ignored and no "Move To" bookmark exists. If this control word and its corresponding bookmark end control word occur without a matching "Move From" bookmark (\mvfmf and \mvfml), then moved content in this move location shall be treated as if it has been marked as inserted instead of moved. The control word and the bookmark tag are followed by the binary representation of a 6-byte structure containing the move author (the first two bytes, little-endian representation; corresponds to the same value as the one used with the \mvauthN control word) and the date/time of the move (see the DTTM bit field structure). For example, in the RTF fragment below, 0100768baa46 specifies 0x0001 for the author and 0x46aa8b76 for the date/time, which corresponds to Tue 2006-10-17 13:54). {*\mvtof move148856603 0100768baa46} *\mvtol Signifies the end of a "Move To" bookmark. The bookmark's tag is used to link this control word with the corresponding start of the "Move To" bookmark (\mvtof) in the document and with the corresponding "Move From" bookmark (\mvfmf and \mvfml). The following restrictions are applied to the use of this control word: If this control word occurs without a corresponding \mvtof control word with a matching tag, then it shall be ignored and no "Move To" bookmark exists. If this control word and its corresponding bookmark start control word occur without a matching "Move From" bookmark (\mvfmf and \mvfml), then moved content in this

Protection Exceptions

This destination may specify one of two control words: *\protstart, which indicates the start of the specified protection-exception range, and *\protend, which indicates the end of the range.

move location shall be treated as if it has been inserted instead of moved.

Protection exceptions have the following syntax:

```
<protexcept> <protstart> | <protend>
<protstart> '{\*' \protstart #PCDATA '}'
<protend> '{\*' \protend #PCDATA '}'
```

Control word	Meaning
\protstart	Denotes the start of a section exempted from doc protection. The data that follows it is an encoding of the user name.
\protend	Denotes the end of a section exempted from doc protection

The following is an example of protected ranges:

```
\par \hich\af0\dbch\af11\loch\f0 This is {\*\protstart 0300010003000000}\hich\af0\dbch\af11\loch\f0
SECTION 2.

\par {\*\protstart 0200010004000000}\hich\af0\dbch\af11\loch\f0 This is SECTI{\*\protend
0300010003000000}\hich\af0\dbch\af11\loch\f0 ON 3.

\par \hich\af0\dbch\af11\loch\f0 This is SECTION 3.

\par \hich\af0\dbch\af11\loch\f0 This is SECTION 3.

\par \hich\af0\dbch\af11\loch\f0 This is SECTION 3.

\par \hich\af0\dbch\af11\loch\f0 This is SECTIO\hich\af0\dbch\af11\loch\f0 N 3{\*\protend
0200010004000000}
```

Pictures

An RTF file can include pictures created with other applications. These pictures can be in hexadecimal (the default) or binary format. Pictures are destinations and begin with the \pict control word. The \pict keyword is preceded by the *\shppict destination control keyword as described in the following example. A picture destination has the following syntax:

<pict></pict>	'{' \pict (<pictdata> <shpdata>) '}'</shpdata></pictdata>
<pictdata></pictdata>	(<brd>'? & <shading>? & <picttype> & <pictsize> & <metafileinfo>?) <data></data></metafileinfo></pictsize></picttype></shading></brd>
<picttype></picttype>	\emfblip \pngblip \jpegblip \macpict \pmmetafileN \wmetafileN \dibitmapN <bitmapinfo> \wbitmapN <bitmapinfo></bitmapinfo></bitmapinfo>
 bitmapinfo>	\wbmbitspixel & \wbmplanes & \wbmwidthbytes
<pictsize></pictsize>	(\picwN & \pichN) \picwgoal? & \pichgoal? \picscalex? & \picscaley? & \piccropt? & \piccropt? & \piccropt?
<metafileinfo></metafileinfo>	\picbmp & \picbppN
<data></data>	(\binN #BDATA) #SDATA
<shpdata></shpdata>	'{*' \picprop \shplidN? <shpprop>+ '}'</shpprop>
<shpprop></shpprop>	'{' \sp '{' \sn <shpname> '}{' \sv <shpvalue> '}}'</shpvalue></shpname>
<shpname></shpname>	#PCDATA
<shpvalue></shpvalue>	#BDATA

These control words are described in the following table. Some measurements in this table are in <u>twips</u>. A twip is one-twentieth of a point.

Control word	Meaning
\emfblip	Source of the picture is an EMF (enhanced metafile).
\pngblip	Source of the picture is a PNG.
\jpegblip	Source of the picture is a JPEG.
\shppict	Specifies a Word 97 through Word 2002 picture. This is a destination control word.
\nonshppict	Specifies that Word 97 through Word 2002 has written a {\pict destination that it will not read on input. This keyword is for compatibility with other readers.
\macpict	Source of the picture is QuickDraw.
\pmmetafile/V	Source of the picture is an OS/2 metafile. The N argument identifies the metafile type. The N values are described in the \pmmetafile N table further on in this section.
\wmetafile/V	Source of the picture is a Windows metafile. The N argument identifies the <u>metafile mapping</u> mode (the default type is 1, which is MM_TEXT).
\dibitmap/V	Source of the picture is a Windows device-independent bitmap. The $\it N\!\! I$ argument identifies the bitmap type, which must equal 0.
	The information to be included in RTF from a Windows device-independent bitmap is the concatenation of the BITMAPINFO structure followed by the actual pixel data.
\wbitmap/V	Source of the picture is a Windows device-dependent bitmap. The $\it N$ argument identifies the bitmap type (must equal 0).
	The information to be included in RTF from a Windows device-dependent bitmap is the result of the GetBitmapBits function.

The following is an example of the **\shppict** group:

```
{\*\shppict {\pict \emfblip ...}}{\nonshppict {\pict ...}}
```

For best device-independence and interoperability with Microsoft products, use of the \wbitmapN and \dibitmapN control words is discouraged. Rather, bitmaps should be embedded within Windows metafiles and the \wmetafileN control word should be used. For more information on the GetDIBits and GetBitmapBits functions, the structure of Windows device-independent and device-dependent bitmaps, and information on embedding bitmaps within metafiles, see The GDI Bitmap Reference section in MSDN. The following table outlines picture control keywords:

Control word	Meaning
Bitmap Information	
\wbmbitspixel <i>N</i>	Number of adjacent color bits on each plane needed to define a pixel. Possible values are 1 (monochrome), 4 (16 colors), 8 (256 colors) and 24 (RGB). The default value is 1.
\wbmplanes/V	Number of bitmap color planes (must equal 1).
\wbmwidthbytes <i>N</i>	Specifies the number of bytes in each raster line. This value must be an even number because the Windows Graphics Device Interface (GDI) assumes that the bit values of a bitmap form an array of integer (two-byte) values. In other words, \wbmwidthbytes multiplied by 8 must be the next multiple of 16 greater than or equal to the \picw (bitmap width in pixels) value.
Picture Size, Scaling	, and Cropping
\picwN	xExt field if the picture is a Windows metafile; picture width in pixels if the picture is a bitmap or from QuickDraw. The N argument is a long integer.
\pich/V	yExt field if the picture is a Windows metafile; picture height in pixels if the picture is a bitmap or from QuickDraw. The N argument is a long integer.
\picwgoal <i>N</i>	Desired width of the picture in twips. The \emph{N} argument is a long integer.
\pichgoalN	Desired height of the picture in twips. The ${\it N}$ argument is a long integer.

Control word	Meaning
\picscalex <i>N</i>	Horizontal scaling value. The $\it N$ argument is a value representing a percentage (default is 100 percent).
\picscaley <i>N</i>	Vertical scaling value. The \emph{N} argument is a value representing a percentage (default is 100 percent).
\picscaled	Scales the picture to fit within the specified frame. Used only with $\mbox{\bf macpict}$ pictures.
\picprop	Indicates there are shape properties applied to an inline picture. This is a destination control word.
\defshp	Indicates that the inline picture is a WordArt shape.
\piccroptN	Top cropping value in twips. A positive value crops toward the center of the picture; a negative value crops away from the center, adding a space border around the picture (the default value is 0).
\piccropbN	Bottom cropping value in twips. A positive value crops toward the center of the picture; a negative value crops away from the center, adding a space border around the picture (the default value is 0).
\piccroplN	Left cropping value in twips. A positive value crops toward the center of the picture; a negative value crops away from the center, adding a space border around the picture (the default value is 0).
\piccroprN	Right cropping value in twips. A positive value crops toward the center of the picture; a negative value crops away from the center, adding a space border around the picture (the default value is 0).
Metafile Informa	ition
\picbmp	Specifies whether a metafile contains a bitmap.
\picbpp/\	Specifies the bits per pixel in a metafile bitmap. The valid range is 1 through 32, with 1, 4, 8, and 24 being recognized.
Picture Data	
\bin <i>N</i>	The picture is in binary format. The numeric parameter N is the number of bytes that follow. Unlike most other control words, \binN takes a 32-bit parameter and the bytes are any 8-bit values.
\blipupi <i>N</i>	${\it N}$ represents units per inch on a picture (only certain image types need or output this)
\blipuid	Destination of the form ' $\{*' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
\bliptag/V	A unique identifier for a picture, where \emph{N} is a 32-bit signed integer value.

The **\wbitmap**N control word is optional. If no other picture type is specified, the picture is assumed to be a Windows bitmap. If **\wmetafile**N is specified, the N argument can be one of the following Windows mapping modes:

Туре	N argument	
MM_TEXT	1	
MM_LOMETRIC	2	
MM_HIMETRIC	3	
MM_LOENGLISH	4	
MM_HIENGLISH	5	
MM_TWIPS	6	
MM_ISOTROPIC	7	
MM_ANISOTROPIC	8	

If **\pmmetafileN** is specified, the **N** argument can be one of the following types.

Туре	N argument	
PU_ARBITRARY	0x0004	
PU_PELS	0x0008	
PU_LOMETRIC	0x000C	
PU_HIMETRIC	0x0010	
PU_LOENGLISH	0x0014	
PU_HIENGLISH	0x0018	
PU_TWIPS	0x001C	

Be careful with spaces following control words when dealing with pictures in binary format. When reading files, RTF considers the first space after a control word to be the delimiter and subsequent spaces part of the document text. Therefore, any extra spaces are attached to the picture, with unpredictable results.

RTF writers should not use the carriage return/line feed (CR/LF) combination to break up pictures in binary format. If they do, the CR/LF combination is treated as literal text and considered part of the picture data.

The picture in hexadecimal or binary format follows the picture-destination control words. The following example illustrates the destination format:

 ${\bf \{\pict\wbitmap0\picw170\pich77\wbmbitspixel1\wbmplanes1\wbmwidthbytes22.}$

\picwgoal505

\pichgoal221

\picscalex172

\picscaley172

49f2000000000273023d1101a030

3901000a00000000273023d98

0048000200000275

02040000200010275023e000000000

273023d000002b90002b90002

b90002b90002b9

0002b90002b90002b90002b90002

b92222b90002b90002b90

002b90002b9

0002b90002b90002b90002b9000

Custom XML Tags

Custom XML Tags and Smart Tags provide a facility for embedding customer-defined semantics into the document by using the ability to provide a basic namespace or name for a run or set of runs in a document. For example, an invoice document may wish to specify that a particular sentence of text is a customer name, in order for that information to be easily extracted from the document without the need to parse the text using regular expression matching or similar

technique. For such scenarios, multiple facilities are provided for the insertion and round-tripping of customer defined semantics within a document. RTF supports two distinct forms in which customer-defined semantics can be inserted into a document, each with its own specific intended usage:

- Smart tags, which provide a basic namespace/name for a run or set of runs within a
 document
- Custom XML markup, which provides the ability to tag the document with XML elements and attributes specified by any valid XML Schema file.

The following table lists the keywords that have been added to convert Custom XML Tags data to RTF.

```
<xmltagopen>
                  '{\*' \xmlopen \xmlnsN <xmltagtype><xmltagname><xmlattr>* '}'
<xmltagtype>
                  \xmlsdttunknown | \xmlsdttregular | \xmlsdttpara | \xmlsdttcell | \xmlsdttrow |
                  \xmlattr
<xmltagname>
                  '{' \xmlname #PCDATA '}'
<xmlattr>
                  '{' \xmlattr <xmlattrns><xmlattrname><xmlattrvalue> '}'
<xmlattrns>
                  \xmlattrnsN
<xmlattrname>
                  \xmlattrname #PCDATA
<xmlattrvalue>
                  \xmlattrvalue #PCDATA
<xmltagclose>
                  '{\*' \xmlclose '}'
```

For example:

```
{\*\xmlopen\xmlns2\xmlsdttpara{\xmlname Book}}}{\rtlch\fcs1 \af0 \ltrch\fcs0
\insrsid1978110 \hich\af0\dbch\af11\loch\f0 Classic}{\rtlch\fcs1 \af0
\ltrch\fcs0 \insrsid136785
\par }{\rtlch\fcs1 \af0 \ltrch\fcs0 \insrsid136785
{\*\xmlopen\xmlns0\xmlsdttpara{\xmlname Title}}}{\rtlch\fcs1 \af0 \ltrch\fcs0
\insrsid1978110 \hich\af0\dbch\af11\loch\f0 Atlas Shrugged}{\rtlch\fcs1 \af0
\left( \frac{36785 {\xmlclose}}{\text{ch}fcs1 \af0 \trch\fcs0} \right) }
\insrsid136785
\par }{\rtlch\fcs1 \af0 \ltrch\fcs0 \insrsid136785
{\*\xmlopen\xmlns0\xmlsdttpara{\xmlname Author}}
\ltrch\fcs0 \insrsid1978110 \hich\af0\dbch\af11\loch\f0 Ann }{\rtlch\fcs1 \af0
\ltrch\fcs0 \insrsid136785 {\*\xmlclose}
\label{local_continuous} $$ {\xmlname LastName}} {\xmlname LastName}} $$
\ltrch\fcs0 \insrsid1978110 \hich\af0\dbch\af11\loch\f0 Ryan}{\rtlch\fcs1 \af0
\label{linear_condition} $$ \left( \frac{x^{c}}{x^{c}} \right) {\xr_{c}} {\xr_{c}} {\xr_{c}} $$
\ltrch\fcs0 \insrsid136785
\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\pro
```

The following table lists the XML Tag control words:

Control word	Meaning
*\xmlopen	Specifies the beginning of the given XML Tag.
\xmlns <i>N</i>	Specifies the namespace of the given XML Tag.
\xmlname	Specifies the name of the given XML Tag.
\xmlattrns <i>N</i>	Specifies the namespace of an attribute of the given XML Tag.
\xmlattrvalue	Specifies the value of an attribute of the given XML Tag.
\xmlattrname	Specifies the name of an attribute of the given XML Tag.
*\xmlclose	Specifies the ending of the given XML Tag.
\ xmlsdttunknown	Specifes the type of the XML Tag as unknown.
\xmlsdttpara	Specifes the type of the XML Tag as encapsulating a paragraph.
\xmlsdttcell	Specifes the type of the XML Tag as encapsulating a cell in a table.
\xmlsdttrow	Specifes the type of the XML Tag as encapsulating a row in a table.
\xmlsdttregular	Specifes the type of the XML Tag as regular (not encapsulating paragraphs, cells, or rows).
\xmlattr	Specifies an attribute of the given XML Tag.

SmartTag Data

Smart Tags provide a facility for embedding customer-defined semantics into the document by using the ability to provide a basic namespace or name for a run or set of runs in a document.

The following table lists the keywords that have been added to convert Smart Tags data to RTF.

```
<smarttagopen> '{\*' \xmlopen \xmlnsN <smarttagname><xmlattr>* '}'
<smarttagname> '{\ '\ factoidname #PCDATA '}'
<xmlattr> '{' \xmlattr \xmlattrnsN <xmlattrname><xmlattrvalue> '}'
<xmlattrvalue> \xmlattrvalue #PCDATA
<xmlattrvalue> \xmlattrvalue #PCDATA
<smarttagclose> '{\*' \xmlclose '}'
\factoidname Specifies the name of the given SmartTag.
```

The **\xml**... control words are described in the (previous) section on Custom XML Tags. For example:

```
 $$ {\mathbf x} = \sum_{x=1}^{x} {\mathbf x} {\mathbf x
```

Custom XML Data Properties

This control word specifies the properties for the custom XML parts inside an RTF file. For additional information on custom XML parts, please reference the Office Open XML section on the element "datastoreItem".

On Windows, custom XML parts may be saved to RTF as follows: The custom xml parts are written to an **IStorage** interface that is then stamped with the following CLSID: CLSID_SAXXMLReader50. The system call **OleConvertIStorageToOLESTREAM** is then used to flatten the **IStorage** that is then hex-encoded and written to the RTF stream. On other platforms, the custom data would be "flattened" using equivalent system functions. The format of the flattened data is unknown to RTF. Please refer to the documentation for the custom XML parts involved for definitions of the flattened data.

Custom XML parts can be loaded from RTF by decoding them and then using the **OleConvertOLESTREAMToIStorage** system call to convert the flattened stream in RTF to an **IStorage**.

The syntax of Custom XML Data Properties is:

```
<datastore> '{\*' \datastore #SDATA '}'
```

Objects

Microsoft OLE links, Microsoft OLE embedded objects, and Macintosh Edition Manager subscriber objects are represented in RTF as objects. Objects are destinations that contain data and a result. The data is generally hidden to the application that produced the document. A separate application uses the data and supplies the appearance of the data. This appearance is the result of the object.

The representation of objects in RTF is designed to allow RTF readers that do not understand objects, or do not use a particular type of object, to use the current result in place of the object. This allows the appearance of the object to be maintained through the conversion even though the object functionality is lost. Each object comes with optional information about itself, a required destination that contains the object data, and an optional result that contains the current appearance of the object. This result contains standard RTF. The RTF writer is responsible for providing the result so that existing RTF readers that do not support objects, or do not support a particular type of object, are able to display the object.

When the object is an OLE embedded or linked object, the data part of the object is the structure produced by the **OLESaveToStream** function. Some OLE clients rely on the OLE system to render the object when a copy of the result is not available to the RTF writer for that application. In these cases, the object result can be extracted from the structure produced by the **OLESaveToStream** function. For information about the **OLESaveToStream** function, see the Microsoft Object Linking and Embedding Software Development Kit.

This destination has the following syntax:

```
('{' \object (<objtype> & <objmod>? & <objclass>? & <objname>? & <objtime>? &
<obj>
                   <objsize>? & <rsltmod>?) <objclsid> ? <objdata> <result> '}' ) | <pubobject>
                   \objemb | \objlink | \objautlink | \objsub | \objpub | \objicemb | \objhtml | \objocx
<objtype>
                   \linkself? & \objlock? | \objupdate?
<objmod>
                   '{\*' \objclass #PCDATA '}'
<objclass>
                   '{\*' \objname #PCDATA '}'
<objname>
                   '{\*' \obitime <time> '}'
<objtime>
                   \rsltmerge? & <rslttype>?
<rsltmod>
                   \rsltrtf | \rslttxt | \rsltpict | \rsltbmp | \rslthtml
<rslttype>
                   \objsetsize? & \objalignN? & \objtransyN? & <objhw>? & \objcroptN? & \objcroptN? &
<objsize>
                   \objcropIN? & \objcroprN? & \objscalexN? & \objscaleyN?
                   \objhN & \objwN
<objhw>
<objclsid>
                   '{\*' \oleclsid #PCDATA '}'
```

```
<objdata> '{\*' \objdata (<objalias>? & <objsect>?) <data> '}'
<objsect> '{\*' \objsect <data> '}'
<result> '{' \result <para>+ '}'
```

These control words are described in the following table.

Control word	Meaning
Object Type	
\objemb	An object type of OLE embedded object. If no type is given for the object, the object is assumed to be of type \objemb .
\objlink	An object type of OLE link.
\objautlink	An object type of OLE autolink.
\objsub	An object type of Macintosh Edition Manager subscriber.
\objpub	An object type of Macintosh Edition Manager publisher.
\objicemb	An object type of MS Word for the Macintosh Installable Command (IC) Embedder.
\objhtml	An object type of Hypertext Markup Language (HTML) control.
\objocx	An object type of OLE control.
Object Informati	ion
\linkself	The object is a link to another part of the same document.
\objlock	Locks the object from any updates.
\objupdate	Forces an update to the object before displaying it. Note that this will override any values in the <objsize> control words, but values should always be provided for these to maintain backward compatibility.</objsize>
\objclass	The text argument is the object class to use for this object; ignore the class specified in the object data. This is a destination control word.
\objname	The text argument is the name of this object. This is a destination control word.
\objtime	Lists the time that the object was last updated.
Object Size, Posi	ition, Cropping, and Scaling
\objhN	${\it N}$ is the original object height in twips, assuming the object has a graphical representation.
\objwN	${\it N}$ is the original object width in twips, assuming the object has a graphical representation.
\objsetsize	Forces the object server to set the object's dimensions to the size specified by the client.
\objalign <i>N</i>	$\it N$ is the distance in twips from the left edge of the objects that should be aligned on a tab stop. This is needed to place Equation Editor equations correctly.
\objtransy <i>N</i>	N is the distance in twips the objects should be moved vertically with respect to the baseline. This is needed to place Math Type equations correctly.
\objcroptN	$m{\textit{N}}$ is the top cropping value in twips.
\objcropbN	N is the bottom cropping value in twips.
\objcropl <i>N</i>	N is the left cropping value in twips.
\objcroprN	${\it N}$ is the right cropping value in twips.
\objscalex <i>N</i>	N is the horizontal scaling percentage.

Control word	Meaning
Object Class ID	
\oleclsid	This sub-destination contains the CLSID for an object for which no server is registered on the computer saving the given RTF file.
	When reading an RTF file, if this destination is present, then readers should know to save the CLSID specified by the destination's argument, and stamp the next object that comes in the RTF stream with the specified CLSID.
	When writing an RTF file, this destination may be instantiated for objects for which no server is registered. This destination's argument shall be constructed as follows:
	1. Take the object's original CLSID
	2. Write the CLSID as the argument for \oleclsid
	3. Stamp the object with CLSID_SAXXMLReader50
	4. Write the object in the \objdata destination
	Note: If a reader ignores this destination but uses the corresponding \objdata destination, then it will end up with an object that believes it is a SAX XML Reader 5.0 object, even though it may be something else.
Object Data	
\objdata	This sub-destination contains the data for the object in the appropriate format; OLE objects are in OLESaveToStream format. This is a destination control word.
\objalias	This sub-destination contains the alias record of the publisher object for the Macintosh Edition Manager. This is a destination control word.
\objsect	This sub-destination contains the section record of the publisher object for the Macintosh Edition Manager. This is a destination control word.
Object Result	
\rsltrtf	Forces the result to be RTF, if possible.
\rsltpict	Forces the result to be a Windows metafile or MacPict image format, if possible.
\rsltbmp	Forces the result to be a bitmap, if possible.
\rslttxt	Forces the result to be plain text, if possible.
\rslthtml	Forces the result to be HTML, if possible.
\rsltmerge	Uses the formatting of the current result whenever a new result is obtained.
\result	The result destination is optional in the \object destination. The result destination contains the last update of the result of the object. The data of the result destination should be standard RTF. This allows RTF readers that do not understand objects or the type of object represented to use the current result, in place of the object, to maintain appearance. This is a destination control word.

When Word or RichEdit is used as an editor for e-mail, the following control word can be emitted. Otherwise, it is not seen.

Control word	Meaning
\objattph	Object attachment placeholder. Used in the RTF stream when Word or RichEdit is used as an e-mail editor and the message contains attachments. The control word marks where in the text stream the next attachment should appear. It does not define the actual attachment. Following the control word, a space (\'20) is inserted to act as a placeholder for the attachment.

Macintosh Edition Manager Publisher Objects

Word for the Macintosh writes publisher objects for the Macintosh Edition Manager in terms of bookmarks (see the <u>Bookmark</u> section of this specification). The range of publisher objects are marked as bookmarks, so these controls are all used within the **\bkmkstart** destination. The RTF syntax for a publisher object is:

```
<pubblect> '{\*' \bkmkstart \bkmkpub \pubauto? (<objalias>? & <objsect>) #PCDATA '}'
```

These control words are described in the following table.

Control word	Meaning
\bkmkpub	The bookmark identifies a Macintosh Edition Manager publisher object.
\pubauto	The publisher object updates all Macintosh Edition Manager subscribers of this object automatically, whenever it is edited.

Drawing Objects

Drawing Objects in Word 6.0/95 RTF

Drawing objects and the drawing primitives enumerated within drawing object groups use the following syntax:

'{*' \ do <dohead> <dpinfo> '}'</dpinfo></dohead>
<dobx> <doby> <dodhgt> <dolock>?</dolock></dodhgt></doby></dobx>
\dobxpage \dobxcolumn \dobxmargin
\dobypage \dobypara \dobymargin
\dodhgtN
\dolock
<dpgroup> <dpcallout> <dpsimple></dpsimple></dpcallout></dpgroup>
\dpgroup \dpcountN <dphead> <dpinfo>+ \dpendgroup <dphead></dphead></dpinfo></dphead>
\dpcallout <cotype> <coangle>? <coaccent>? <cosmartattach>? <cobestfit>? <cominusx>? <cominusy>? <coborder>? <codescent>? \dpcooffsetN \dpcolengthN <dphead> <dppolyline> <dphead> <dpreps> <dptextbox> <dphead> <dpreps></dpreps></dphead></dptextbox></dpreps></dphead></dppolyline></dphead></codescent></coborder></cominusy></cominusx></cobestfit></cosmartattach></coaccent></coangle></cotype>
<dpsimpledpk> <dphead> <dpprops></dpprops></dphead></dpsimpledpk>
<pre><dpline> <dprect> <dptextbox> <dpellipse> <dppolyline> <dparc></dparc></dppolyline></dpellipse></dptextbox></dprect></dpline></pre>
\dpline <dppt> <dppt></dppt></dppt>
\dprect (\dproundr)?
\dptxbx (\dptxlrtb \dptxtbrl \dptxbtlr \dptxlrtbv \dptxtbrlv)? \dptxbxmarN '{' \dptxbxtext <para>+'}'</para>
\dpellipse
\dparc \dparcflipx? \dparcflipy?
\dppolyline (\dppolygon)? \dppolycountN <dppt>+</dppt>
\dpptxN \dpptyN
\dpxN \dpyN \dpxsizeN \dpysizeN

Note: In <dpgroup> the number of <dpinfo> occurrences is equal to the argument of \dpcountN. This means that in <dppolyline> the number of <dppt> Occurrence is equal to the argument of \dppolycountN.

The following elements of the drawing-object syntax pertain specifically to callout objects:

```
\dpcotright | \dpcotsingle | \dpcotdouble | \dpcottriple
<cotype>
<coangle>
                  \dpcoa
                  \dpcoaccent
<coaccent>
<cosmartattach>
                  \dpcosmarta
<cobestfit>
                  \dpcobestfit
<cominusx>
                  \dpcominusx
<cominusy>
                  \dpcominusy
<coborder>
                  \dpcoborder
<codescent>
                  \dpcodtop | \dpcodcenter | \dpcodbottom | \dpcodabs
```

The remaining elements of the drawing object syntax are properties applied to individual drawn primitives. These remaining objects use the following syntax:

```
</
<dpprops>
lineprops>
                  <linestyle> <linecolor> \dplinewN
                  \dplinesolid | \dplinehollow | \dplinedash | \dplinedot | \dplinedado | \dplinedadodo
linestyle>
linecolor>
                  linegray> | linergb>
linegray>
                  \dplinegray
linergb>
                  \dplinecor \dplinecog \dplinecob<linepal>?
linepal>
                  \dplinepal
<fillprops>
                  <fillcolorfg> <fillcolorbg> \dpfillpatN
<fillcolorfg>
                  <fillfggray> | <fillfgrgb>
<fillfggray>
                  \dpfillfggray
<fillfgrgb>
                  \dpfillfgcr \dpfillfgcg \dpfillfgcb<fillfgpal>?
<fillfgpal>
                  \dpfillfgpal
                  <fillbggray> | <fillbgrgb>
<fillcolorbg>
<fillbggray>
                  \dpfillbggray
<fillbgrgb>
                  \dpfillbgcr \dpfillbgcg \dpfillbgcb<fillbgpal>?
<fillbgpal>
                  \dpfillbgpal
<endstylestart>
                  <arrowstartfill> \dpastartlN \dpastartwN
<arrowstartfill>
                  \dpastartsol | \dpastarthol
                  <arrowendfill> \dpaendlN \dpaendwN
<endstyleend>
<arrowendfill>
                  \dpaendsol | \dpaendhol
<shadow>
                  \dpshadow \dpshadx \dpshady
```

The following table describes the control words for the drawing object group. All color values are **RGB** values from 0 through 255. All distances are in twips. All other values are as indicated.

Control word	Meaning
\do	Indicates a drawing object is to be inserted at this point in the character stream. This is a destination control word.

Control word	Meaning				
\dolock	The drawing object's anchor is locked and cannot be moved.				
\dobxpage	The drawing object is page relative in the x-direction.				
\dobxcolumn	The drawing object is column relative in the x-direction.				
\dobxmargin	The drawing object is margin relative in the x-direction.				
\dobypage	The drawing object is page relative in the y-direction.				
\dobypara	The drawing object is paragraph relative in the y-direction.				
\dobymargin	The drawing object is margin relative in the y-direction.				
\dodhgt/V	The drawing object is positioned at the numeric position of the z-ordering.				
Drawing Primitiv	ves				
\dpgroup	Begin group of drawing primitives.				
\dpcount/V	Number of drawing primitives in the current group.				
\dpendgroup	End group of drawing primitives.				
\dparc	Arc drawing primitive.				
\dpcallout	Callout drawing primitive, which consists of both a polyline and a text box.				
\dpellipse	Ellipse drawing primitive.				
\dpline	Line drawing primitive.				
\dppolygon	Polygon drawing primitive (closed polyline).				
\dppolyline	Polyline drawing primitive.				
\dprect	Rectangle drawing primitive.				
\dptxbx	Text box drawing primitive.				
Position and Size	e				
\dpxN	X-offset of the drawing primitive from its anchor.				
\dpxsizeN	X-size of the drawing primitive.				
\dpyN	Y-offset of the drawing primitive from its anchor.				
\dpysize <i>N</i>	Y-size of the drawing primitive.				
Callouts					
\dpcoa <i>N</i>	Angle of callout's diagonal line is restricted to one of the following: 0, 30, 45, 60, or 90. If this control word is absent, the callout has an arbitrary angle, indicated by the coordinates of its primitives.				
\dpcoaccent	Accent bar on callout (vertical bar between polyline and text box).				
\dpcobestfit	Best fit callout (x-length of each line in callout is similar).				
\dpcoborder	Visible border on callout text box.				
\dpcodabs	Absolute distance-attached polyline.				
\dpcodbottom	Bottom-attached polyline.				
\dpcodcenter	Center-attached polyline.				
\dpcodtop	Top-attached callout.				
\dpcodescent/V	Descent of the callout				
\dpcolength/V	Length of callout.				
\dpcominusx	Text box falls in quadrants II or III relative to polyline origin.				
\dpcominusy	Text box falls in quadrants III or IV relative to polyline origin.				
\dpcooffset <i>N</i>	Offset of callout. This is the distance between the end of the polyline and the edge of the text box.				

Control word Meaning				
\dpcosmarta	Auto-attached callout. Polyline will attach to either the top or bottom of the text box depending on the relative quadrant.			
\dpcotdouble	Double line callout.			
\dpcotright	Right angle callout.			
\dpcotsingle	Single line callout.			
\dpcottriple	Triple line callout.			
Text Boxes and	Rectangles			
\dptxbxmarN	Internal margin of the text box.			
\dptxbxtext	Group that contains the text of the text box.			
\dptxlrtb	Text box flows from left to right and top to bottom (default).			
\dptxtbrl	Text box flows from right to left and top to bottom.			
\dptxbtlr	Text box flows from left to right and bottom to top.			
\dptxlrtbv	Text box flows from left to right and top to bottom, vertically.			
\dptxtbrlv	Text box flows from right to left and top to bottom, vertically.			
\dproundr	Rectangle is a round rectangle.			
Lines and Polyli	nes			
\dpptxN	X-coordinate of the current vertex (only for lines and polylines). The coordinate order for a point must be x , y .			
\dppty/V	Y-coordinate of the current vertex (only for lines and polylines). The coordinate order for a point must be x, y.			
\dppolycount/V	Number of vertices in a polyline drawing primitive.			
Arcs				
\dparcflipx	This indicates that the endpoint of the arc is to the right of the start point. Arcs are drawn counter-clockwise.			
\dparcflipy	This indicates that the endpoint of the arc is below the start point. Arcs are drawn counter-clockwise.			
Line Style				
\dplinecobN	Blue value for line color.			
\dplinecog <i>N</i>	Green value for line color.			
\dplinecorN	Red value for line color.			
\dplinepal	Render line color using the PALETTERGB macro instead of the RGB macro in Windows.			
\dplinedado	Dash-dotted line style.			
\dplinedadodo	Dash-dot-dotted line style.			
\dplinedash	Dashed line style.			
\dplinedot	Dotted line style.			
\dplinegrayN	Grayscale value for line color (in half-percentages).			
\dplinehollow	Hollow line style (no line color).			
\dplinesolid	Solid line style.			
\dplinew <i>N</i>	Thickness of line (in twips).			
Arrow Style				
\dpaendhol	Hollow end arrow (lines only).			
• •	` ''			

Control word	Meanii	ng		
\dpaendl <i>N</i>	Length	of end arrow, relative to pen width:		
	1	Small		
	2	Medium		
	3	Large		
\dpaendsol	Solid e	nd arrow (lines only).		
\dpaendw/V	Width o	of end arrow, relative to pen width:		
	1	Small		
	2	Medium		
	3	Large		
\dpastarthol	Hollow	start arrow (lines only).		
\dpastartl <i>N</i>	Length	of start arrow, relative to pen width:		
	1	Small		
	2	Medium		
	3	Large		
\dpastartsol	Solid st	tart arrow (lines only).		
\dpastartw <i>N</i>	Width o	of start arrow, relative to pen width:		
	1	Small		
	2	Medium		
	3	Large		
Fill Pattern				
\dpfillbgcb/V	Blue va	alue for background fill color.		
\dpfillbgcg <i>N</i>	Green	value for background fill color.		
\dpfillbgcr/V	Red va	lue for background fill color.		
\dpfillbgpal	Render Windov	r fill background color using the PALETTERGB macro instead of the RGB macro in ws.		
\dpfillbggray <i>N</i>	Graysc	ale value for background fill (in half-percentages).		
\dpfillfgcb/V	Blue va	alue for foreground fill color.		
\dpfillfgcg/V	Green	value for foreground fill color.		
\dpfillfgcr/V	Red va	lue for foreground fill color.		
\dpfillfgpal	Render fill foreground color using the PALETTERGB macro instead of the RGB macro in Windows.			
\dpfillfggrayN	Grayscale value for foreground fill (in half-percentages).			
\dpfillpat/V	Index i	nto a list of fill patterns. See the fill pattern table that follows for list.		
Shadow				
	Current drawing primitive has a shadow.			
\dpshadow	Curren			
\dpshadow \dpshadx/V		et of the shadow.		

The following values are available for specifying fill patterns in drawing objects with the $\mbox{\sc dpfillpatN}$ control word.

Value	Fill pattern
0	Clear (no pattern)
1	Solid (100%)
2	5%
3	10%
4	20%
5	25%
6	30%
7	40%
8	50%
9	60%
10	70%
11	75%
12	80%
13	90%
14	Dark horizontal lines
15	Dark vertical lines
16	Dark left-diagonal lines (\\\)
17	Dark right-diagonal lines (///)
18	Dark gridlines
19	Dark trellis lines
20	Light horizontal lines
21	Light vertical lines
22	Light left-diagonal lines (\\\)
23	Light right-diagonal lines (///)
24	Light gridlines
25	Light trellis lines

Word 97 Through Word 2007 RTF for Drawing Objects (Shapes)

Basic Format

The basic syntax for drawing objects in RTF is as follows:

```
<shape>
    '{' \shp <shpinfo> <shpinst> <shprslt> '}'

<shpinfo>
    \shpleftN? \shptopN? \shpbottomN? \shprightN? \shpbxpage ? \shpbxpage ? \shpbxpage ? \shpbypage ? \shpbypage ? \shpbypage? \shpbypage?
```

<hsv> '{*' \hsv <accent> & \ctintN & \cshadeN '}'
<accent> \caccentone | \caccenttwo | \caccentfour | \caccentfive | \caccentsix

The first destination (\shp) is always present. This control word groups everything related to a shape together. Following the destination change is basic information regarding the shape. The following keywords with values can appear in any order after the "{\shp" control word.

Control word	Meaning		
Shape Keywords			
\shpleft/V	Specifies position of shape from the left of the anchor. The value $\emph{\textbf{N}}$ is in twips.		
\shptop/V	Specifies position of shape from the top of the anchor. The value $\emph{\textbf{N}}$ is in twips.		
\shpbottomN	Specifies position of shape from the bottom of the anchor. The value ${\it N}$ is in twips.		
\shpright/V	Specifies position of shape from the right of the anchor. The value $\emph{\textbf{N}}$ is in twips.		
\shplid <i>N</i>	A number that is unique to each shape. This keyword is primarily used for linked text boxes. The value ${\it N}$ is a long integer.		
\shpz/V	Describes the z-order of the shape. It starts at 0 for the shape that is furthest from the top, and proceeds to the top most shape (N). The shapes that appear inside the header document will have a separate z-order, compared to the z-order of the shapes in the main document. For instance, both the back-most shape in the header and the back-most main-document shape will have a z-order of 0.		
\shpfhdr/V	Set to 0 if the shape is in the main document. Set to 1 if the shape is in the header document.		
\shpbxpage	The shape is positioned relative to the page in the x (horizontal) direction.		
\shpbxmargin	The shape is positioned relative to the margin in the x (horizontal) direction.		
\shpbxcolumn	The shape is positioned relative to the column in the x (horizontal) direction.		
\shpbxignore	Ignore \shpbxpage, \shpbxmargin, and \shpbxcolumn, in favor of the posrelh property. The ignored properties will be written for backward compatibility with older readers that do not understand \posrelh.		
\shpbypage	The shape is positioned relative to the page in the y (vertical) direction.		
\shpbymargin	The shape is positioned relative to the margin in the y (vertical) direction.		
\shpbypara	The shape is positioned relative to the paragraph in the y (vertical) direction.		
\shpbyignore	Ignore \shpbypage, \shpbymargin, and \shpbxpara, in favor of the posrelh property. The ignored properties will be written for backward compatibility with older readers that do not understand the posrelh property.		
\shpwr/V	Describes the type of wrap for the shape:		
	1 Wrap around top and bottom of shape (no text allowed beside shape)		
	2 Wrap around shape		
	None (wrap as if shape isn't present)		
	4 Wrap tightly around shape		
	5 Wrap text through shape		
\shpwrk <i>N</i>	Wrap on side (for types 2 and 4 for \shpwrN):		
	0 Wrap both sides of shape		
	1 Wrap left side only		
	Wrap right side only		
	3 Wrap only on largest side		

Control word	Meaning				
\shpfblwtxt <i>N</i>	Describes relative z-ordering:				
	0 Text is below shape				
	1 Shape is below text				
\shplockanchor	Lock anchor for a shape.				
\shptxt	Text for a shape. The text must follow all of the other properties for the shape (inside the \shpinst destination) and must appear in the following format:				
	{\shptxt Any valid RTF for the current text box }				
	Note For linked text boxes, the first text box of the linked set has the entire story, so all following text boxes will not have a \shptxt field.				
\shpinst	Shape instruction destination containing the shape description				
\shprslt	This is where the Word 6.0 and Word 95 drawn object RTF can be placed.				
\shpgrp	Specifies a group shape. The parameters following this keyword are the same as those following \shp . The order of the shapes inside a group is from bottom to top in z-order.				
	Inside a \shpgrp, no {\shprslt} fields would be generated (that is, only the root-level shape can have a \shprslt field (this field describes the entire group). For example:				
	{\shpgrp {\shp (and all sub-items as usual) }				
	{\shp (and all sub-items as usual) }				
	Note {\shpgrp} can be substituted for {\shp} to create groups inside groups.				
\sn	Destination for a drawing property name (see table in Drawing Object Properties)				
\sp	Destination for a drawing property and takes a '{' \sn'}{' \sv'}' group pair.				
\sv	Destination for a drawing property value				
\svb	Destination containing binary ink information. Used within the value of the pInkData property:				
	Example:				
	{\sp{\sn pInkData}{\sv {*\svb00ad021d04ba06dc02012000680c000000000000000000000000004658cf548ae697c54f8f06 f8bad2e19b22032164063e80440ff00000481144ff0145351b0200adff46351b0200adff570d000000 0503380b65191f320800b07102e4d4c44333090096970102a0d6c443380800fe03000000807f156 73d33406d3a33400 }}				
\hsv	Destination for theme color information.				

With the exception of **\shplidN**, the control words listed in the preceding table do not apply for shapes that are within a group. For more information about groups, see the <u>Introduction</u> section of this specification.

Drawing Object Properties

The bulk of a drawing object is defined as a series of properties. The $\{\shp\ ...\ control\ word\ is\ followed\ by\ \{\shpinst,\ followed,\ in\ turn,\ by\ a\ list\ of\ all\ the\ properties\ of\ a\ shape.$ Each of the properties is in the following format:

```
{\tt \{\sp\{\sn\ PropertyName\}\{\sn\ PropertyValueInformation}\{\sn\ AccentandTintandShadeInformation}\}\}}
```

The control word for the drawing object property is \sp. Each property has a pairing of the name (\sn) and value (\sv) control words placed in the shape property group. For example, the vertical flip property is represented as:

```
\{ \sp \{ \sn fFlipV \} \{ \sv 1 \} \}
```

Here, the name of the property is **fFlipV** and the value is 1, which indicates **True**. All shape properties follow this basic format. Only properties that have been explicitly set for a shape are

written out in RTF. Other properties assume the default values (a property may be set to the default value explicitly).

The ***\hsv** destination holds the theme information for a shape color (color, tint, and shade). If the value is not a color or the shape color is not a themed color, this control word will not be written. This control word is always preceded by a non-theme equivalent color, so that theme-unaware applications can read what the given color evaluates to while safely ignoring the theme control words new to Word 2007.

For example, consider the partial RTF for a rectangle filled with the pink color. In this example, pink is also a theme color so **\hsv** is also written with the theme color information, consisting of which theme color (**\caccentone**), and the tint (**\ctintN**), and shade (**\cshadeN**).

The drawing object properties are grouped into the categories:

<u>Position</u>	Relative Positioning Properties	<u>Rehydration</u>
Object Type	Lock	<u>Text Box</u>
Ink Information	Signature Lines	WordArt Effects
<u>Picture</u>	Geometry	Grouped Shapes
<u>Fill</u>	<u>Line</u>	<u>Shadow</u>
3D Effects	<u>Perspective</u>	<u>Callout</u>
<u>Connectors</u>	Drawing Canvases & Diagrams	Black and White Modes
Horizontal Line		

These properties are defined in the following table along with their value types.

Property	Mean	ning	Type of value	Default
Position				
posh	Horizo	ontal alignment:	Not applicable	Absolute position
	0	Absolute		as specified in \shpleftN and
	1	Left		\shprightN.
	2	Center		
	3	Right		
	4	Inside		
	5	Outside		
		overrides the absolute position specified in leftN and \shprightN.		

Property	Meaning		Type of value	Default
posrelh	Position horizontally relative to:		Not applicable	2, if posh is
	0	Margin		present
	1	Page		
	2	Column		
	3	Character		
	4	Left margin		
	5	Right margin		
	6	Inside margin		
	7	Outside margin		
posv	Vertical alignment:		Not applicable	Absolute position
	0	Absolute		as specified in \shptopN and
	1	Тор		\shpbottomN.
	2	Center		
	3	Bottom		
	4	Inside		
	5	Outside		
		verrides the absolute position specified in opN and \shpbottomN .		
posrelv	Positio	n horizontally relative to:	Not applicable	2, if posv is
	0	Margin		present
	1	Page		
	2	Paragraph		
	3	Line		
	4	Top margin		
	5	Bottom margin		
	6	Inside margin		
	7	Outside margin		
	2 is the	e assumed value if the property is not explicitly n.		
fLayoutInCell	Allows	shape to anchor and position inside table cells.	Boolean	FALSE
fAllowOverlap	shape can alv	Allows shape to overlap other shapes unless it is a shape with None wrapping (\shpwr3), in which case it can always overlap an object with other types of wrapping and vice-versa.		TRUE
fChangePage	Ancho	r may change page.	Boolean	FALSE
fPseudoInline	inline i	The shape is pseudo-inline, meaning it behaves like an inline image as far as positioning goes, but has the features of shapes.		FALSE
fUseShapeAnchor	Use sh	Use shape anchor		FALSE
Relative Positioning P	roperties			
pctHoriz	Percer	ntage width for a shape	Integer	?
pctVert	Percer	ntage height for a shape	Integer	?
pctHorizPos	Percer	ntage horizontal position for a shape	Integer	Application specific

Property	Meaning	Type of value	Default	
pctVertPos	Percentage vertical position for a shape	Integer	Application specific	
sizerelh	Relative size horizontal relation	Not applicable	Application specific	
	0 Margin			
	1 Page			
	2 Left Margin			
	3 Right Margin			
	4 Inside Margin			
	5 Outside Margin			
sizerelv	Relative size vertical relation	Not applicable	Application specific	
	0 Margin			
	1 Page			
	2 Top Margin			
	3 Bottom Margin			
	4 Inside Margin			
	5 Outside Margin			
colStart	Starting column	Integer	Application specific	
colSpan	Number of columns to span	Integer	Application specific	
Rehydration				
wzEquationXML	XML representation for a picture of a math zone	String	NA	
metroBlob	Specifies application-specific data used to convert a shape to other formats. It is an encoded byte stream.	String	NA	
Object Type				
fIsBullet	Indicates whether a picture was inserted as a picture bullet.	Boolean	FALSE	
rotation	Rotation of the shape.	Angle	0	
fFlipV	Vertical flip, applied after the rotation.	Boolean	FALSE	
fFlipH	Horizontal flip, applied after the rotation.	Boolean	FALSE	
shapeType	See below for values. 0 indicates user-drawn freeforms and polygons.	Not applicable	Not applicable	
pWrapPolygonVertices	Points of the text wrap polygon.	Array	NULL	
dxWrapDistLeft	Left wrapping distance from text.	EMU	114,305	
dyWrapDistTop	Top wrapping distance from text.	EMU	0	
dxWrapDistRight	Right wrapping distance from text.	EMU	114,305	
dyWrapDistBottom	Bottom wrapping distance from text.	EMU	0	
fBehindDocument	Place the shape behind text.	Boolean	FALSE	
fIsButton	A button shape (That is, clicking performs an action). Set for shapes with attached hyperlinks or macros.	Boolean	FALSE	

Property	Meaning	Type of value	Default
fHidden	Do not display or print (only set through Visual Basic fo Applications).	r Boolean	FALSE
pihlShape	The hyperlink in the shape.	Hyperlink	NULL
fArrowheadsOK	Allow arrowheads.	Boolean	FALSE
fBackground	This is the background shape.	Boolean	FALSE
fDeleteAttachedObject	Delete object attached to shape.	Boolean	FALSE
fEditedWrap	The shape's wrap polygon has been edited.	Boolean	FALSE
fHidden	Do not display.	Boolean	FALSE
fHitTestFill	Hit test fill.	Boolean	TRUE
fHitTestLine	Hit test lines.	Boolean	TRUE
fBottomHitTestLine	Hit test lines.	Boolean	TRUE
fLeftHitTestLine	Hit test lines.	Boolean	TRUE
fRightHitTestLine	Hit test lines.	Boolean	TRUE
fTopHitTestLine	Hit test lines.	Boolean	TRUE
fInitiator	Set by the solver.	Boolean	NULL
fNoFillHitTest	Hit test a shape as though filled.	Boolean	FALSE
fNoHitTestPicture	Do not hit test the picture.	Boolean	FALSE
fNoLineDrawDash	Draw dashed line if no line exists.	Boolean	FALSE
fBottomNoLineDrawDash	Draw dashed line if no line exists.	Boolean	FALSE
fLeftNoLineDrawDash	Draw dashed line if no line exists.	Boolean	FALSE
fTopNoLineDrawDash	Draw dashed line if no line exists.	Boolean	FALSE
fRightNoLineDrawDash	Draw dashed line if no line exists.	Boolean	FALSE
fOleIcon	For OLE objects, indicates whether the object is in icon form or not.	Boolean	FALSE
fOnDblClickNotify	Notify client on a double-click.	Boolean	FALSE
fOneD	1D adjustment.	Boolean	FALSE
fPreferRelativeResize	For UI only. Prefer relative resizing.	Boolean	FALSE
fPrint	Print this shape.	Boolean	TRUE
hspMaster	Master shape.	Shape ID	NULL
hspNext	ID of the next shape (used by Word for linked text boxes).	Shape ID	NULL
xLimo	Defines the limo stretch point.	Long integer	Not applicable
yLimo	Defines the limo stretch point.	Long integer	Not applicable
fPolicyLabel	A shape policy label	Boolean	FALSE
fPolicyBarcode	A shape policy barcode	Boolean	FALSE
Lock			
fLockRotation	Lock rotation.	Boolean	FALSE
fLockAspectRatio	Lock aspect ratio.	Boolean	FALSE
fLockAgainstSelect	Lock against selection.	Boolean	FALSE
fLockCropping	Lock against cropping.	Boolean	FALSE
fLockVerticies	Lock against edit mode.	Boolean	FALSE
fLockText	Lock text against editing.	Boolean	FALSE

Property	Mear	Meaning		Default
fLockAdjustHandles	Lock	adjust handles.	Boolean	FALSE
fLockAgainstGrouping	Lock	against grouping.	Boolean	FALSE
fLockShapeType	Lock	the shape type (Do not allow Change Shape).	Boolean	FALSE
Text Box				
dxTextLeft	Left i	nternal margin of the text box.	EMU	91,440
dyTextTop	Top ii	nternal margin of the text box.	EMU	45,720
dxTextRight	Right	internal margin of the text box.	EMU	91,440
dyTextBottom	Botto	m internal margin of the text box.	EMU	45,720
WrapText	Wrap	text at shape margins:	Not applicable	0
	0	Square		
	1	Tight		
	2	None		
	3	Top bottom		
	4	Through		
anchorText	Text	anchor point:	Not applicable	0
	0	Тор		
	1	Middle		
	2	Bottom		
	3	Top centered		
	4	Middle centered		
	5	Bottom centered		
	6	Top baseline		
	7	Bottom baseline		
	8	Top centered baseline		
	9	Bottom centered baseline		
txflTextFlow	Text	flow:	Not applicable	0
	0	Horizontal non-ASCII font		
	1	Top to bottom ASCII font		
	2	Bottom to top non-ASCII font		
	3	Top to bottom non-ASCII font		
	4	Horizontal ASCII font		
	5	Vertical non-ASCII		
cdirFont	Font	rotation:	Direction	0
	0	Right		
	1	Down		
	2	Left		
	3	Up		
txdir	BiDi 1	Text direction	BiDi text dir	Context
ccol	Coun	t of columns in frame	Long integer	1
dzColMargin	Colun	nn margin on both sides(emu values)	Long integer	91440

Property	Meaning	Type of value	Default
fAutoTextMargin	Use host's margin calculations.	Boolean	FALSE
scaleText	Text zoom and scale.	Long integer	0
lTxid	ID for the text. The value is determined by the host.	Long integer	0
fRotateText	Rotate text with shape.	Boolean	FALSE
fSelectText	TRUE if single click selects text, FALSE if two clicks select text.	Boolean	TRUE
fFitShapeToText	Adjust shape to fit text size.	Boolean	FALSE
fFitTextToShape	Adjust text to fit shape size.	Boolean	FALSE
Ink Information			
pInkData	The Ink information for the object, as a binary blob contained inside the *\svb destination.	Not Applicable	NULL
fInsetPen	Draw line inside shape.	Boolean	FALSE
fLeftInsetPen	Draw line inside shape.	Boolean	FALSE
fRightInsetPen	Draw line inside shape.	Boolean	FALSE
fTopInsetPen	Draw line inside shape.	Boolean	FALSE
fBottomInsetPen	Draw line inside shape.	Boolean	FALSE
fInsetPenOK	Allow inset pen if property is set.	Boolean	FALSE
fLeftInsetPenOK	Left inset	Boolean	FALSE
fRightInsetPenOK	Right inset	Boolean	FALSE
fTopInsetPenOK	Top inset	Boolean	FALSE
fBottomInsetPenOK	Bottom inset	Boolean	FALSE
fColumnInsetPenOK	Column inset	Boolean	FALSE
fArrowheadsOK	Arrowheads	Boolean	FALSE
fBottomArrowheadsOK	Arrowheads	Boolean	FALSE
fLeftArrowheadsOK	Arrowheads	Boolean	FALSE
fRightArrowheadsOK	Arrowheads	Boolean	FALSE
fTopArrowheadsOK	Arrowheads	Boolean	FALSE
fBorderlessCanvas	Borderless Canvas	Boolean	FALSE
fColumnHitTestLine	Column hit test line	Boolean	FALSE
fInkAnnotation	TRUE if current shape is an ink annotation	Boolean	FALSE
fNonStickyInkCanvas	Canvas doesn't accept ink	Boolean	FALSE
fRenderInk	TRUE to render ink	Boolean	FALSE
Signature Lines			
wzSigSetupId	Signature Spot ID	String	Empty string
wzSigSetupProvId	Third-party signature provider id	String	GUID_NULL
wzSigSetupSuggSigner	Signature suggested signer	String	Empty string
wzSigSetupSuggSigner2	Signature suggested signer line 2	String	Empty string
wzSigSetupSuggSignerEmail	Signature suggested signer emails	String	Empty string
wzSigSetupSignInst	Signature signing instructions	String	Empty string
wzSigSetupAddlXml	Additional third-party xml	String	Empty string

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Fisign date should be shown in signature Boolean TRUE	Property	Meaning	Type of value	Default
FSigSetupAllowComments if comments are allowed at sign time Boolean FALSE FSigSetupSignInstSet if suggested signer is set Boolean FALSE fIsSignatureLine if current shape is signature line Boolean FALSE fIsSignatureLine if current shape is signature line FALSE from FALSE for signatures worders are signature. String NULL all signatures worders are signature line fALSE from FALSE from FALSE from FALSE for signatures worders. String NULL all signatures for signatures worders for signatures for sig	wzSigSetupProvUrl	Signature provider url	String	Empty string
FalsE fresting and the spacing between characters (1.0 is normal). Fixed 2,359,296 gtextSize Default point size properties are ignored. String NULL for space properties are ignored. String NULL for space greater are individual characters and guest FalsE for shounds. String NULL for space greater find out on a path to fit the path. Boolean FalsE grextFinkErt Scale text to dit out on a path to fit the path. Boolean FalsE grextFinker Italic fort (if available). Boolean FalsE grextFinker out (if available). Boolean FalsE grextFinker out (if available). Boolean FalsE grextFinkert out (if available). Boolean FalsE grextFinkertough Striket FalsE fort (if available). Boolean FalsE grextFinkertough Striket (if available). Boolean FalsE grextFinkertough Strikethough Cficket Strikethough Strikethough Cfickethough Shadow font (if available). Boolean FalsE grextFinder (i	fSigSetupShowSignDate	if sign date should be shown in signature	Boolean	TRUE
### True for current shape is signature line ### Boolean ### TRUE for signature line ### SPALSE for nor visible digital signatures ### WordArt Effects ### WordArt Effects ### WordArt Effects ### Discreption of the provision	fSigSetupAllowComments	if comments are allowed at sign time	Boolean	FALSE
WordArt Effects gtextUNICODE Unicode text string. String Alignment on curve: 0 Stretch each line of text to fit width 1 Center text on width 2 Left justify 3 Right justify 4 Spread letters out to fit width 5 Spread words out to fit width 5 Spread words out to fit width 6 String Adjust the spacing between characters (1.0 is normal). Fixed 65,536 gtextFont Font name. Fotot name. Fixed 7 True if the text effect properties (gtext*) are used. Boolean FALSE gtextFyertical If available, an @ font should be used. Otherwise, rotateBoolean individual characters 90 degrees counter-clockwise. gtextFort Adjust the spacing between characters rather than the character advance by the gtextSpacingratio. String String NULL FALSE FALSE FALSE FALSE FALSE FALSE FALSE Boolean FALSE gtextFretch String String String String String NULL FALSE FA	fSigSetupSignInstSet	if suggested signer is set	Boolean	FALSE
gtextAlign Alignment on curve: 0 Stretch each line of text to fit width 1 Center text on width 2 Left justify 3 Right justify 4 Spread letters out to fit width 5 Spread words out to fit width 5 Spread words out to fit width 5 Spread words out to fit width 65 Spread words out to fit width 7 Live if the text effect properties (gtext*) are used. 8 GetextFont 9 Fixed 1 Favailable, an @ font should be used. Otherwise, rotateBoolean individual characters 90 degrees counter-clockwise. 9 GetextFortical 1 Favailable, an @ font should be used. Otherwise, rotateBoolean individual character by the gtextSpacingratio. 9 GetextFortherial 1 Adjust the spacing between characters rather than the character advance by the gtextSpacingratio. 9 GetextFortherial 1 Stretch the text off the shape. 1 Soolean 1 FALSE 1 Stretch bounds. 1 Stretch individual characters, consider the glyph bounding box rather than the nominal font character bounds. 1 Stretch individual characters, consider the glyph bounding box rather than the nominal font character bounds. 1 Stretch individual characters, consider the glyph bounding box rather than the nominal font character bounds. 1 Scale text laid out on a path to fit the path. 1 Scale text laid out on a path to fit the path. 2 Scale text laid out on a path to fit the path. 3 Boolean 5 FALSE 1 GetextFDxMeasure 4 When laying out characters, measure the distances 5 Boolean 5 FALSE 5 GetextFDxMeasure 5 Scale text laid out on a path to fit the path. 5 Scale text laid out on a path to fit the path. 5 Scale text laid out on a path to fit the path. 5 Scale text laid out on a path to fit the path. 6 Scale text laid out on a path to fit the path. 6 Scale text laid out on a path to fit the path. 7 Scale text laid out on a path to fit the path. 8 Soolean 7 FALSE 9 GetextFDxMeasure 1 Scale text laid out on a path to fit the path. 8 Soolean 9 Soolean 1 FALSE 1 GetextFDxMeasure 1 Soolean 1 FALSE 1 Soolean 1 FALSE 1 Soolean 1 FALSE 1 Soolean 1 FALSE 1 Soolean	fIsSignatureLine	if current shape is signature line	Boolean	signature lines FALSE for non- visible digital
Alignment on curve: Not applicable 1 O Stretch each line of text to fit width 1 Center text on width 2 Left justify 3 Right justify 4 Spread letters out to fit width 5 Spread words out to fit width 6 Spread words out to fit width 6 String NULL 6 String NUL	WordArt Effects			
0 Stretch each line of text to fit width 1 Center text on width 2 Left justify 3 Right justify 4 Spread letters out to fit width 5 Spread words out to fit width 6 Spread words out to fit width 7 Spread words out to fit width 8 Spread words out to fit width 9 String NULL 1 Fixed 65,536 1 String NULL 1 Fixe if the text effect properties (gtext*) are used. Boolean FALSE 1 False if these properties are ignored. 8 Solean FALSE 1 False if these properties on the support of the su	gtextUNICODE	Unicode text string.	String	NULL
1 Center text on width 2 Left justify 3 Right justify 4 Spread letters out to fit width 5 Spread words out to fit width 6 Spread words out to fit width 5 Spread words out to fit width 5 Spread words out to fit width 6 Spread words out to fit it is supported by the font. Boolean FALSE 6 gtextFStretch Stretch the text to fit the shape. Boolean FALSE 6 gtextFStretch Stretch the text to fit the shape. Boolean FALSE 6 gtextFShrinkFit When laying out the characters, consider the glyph bounding box rather than the nominal font character bounds. 6 gtextFDxMeasure When laying out the character heights independently to fit. Boolean FALSE 6 gtextFDxMeasure When laying out characters, measure the distances Boolean FALSE 6 gtextFDxMeasure When laying out characters, measure the distances Boolean FALSE 7 gtextFDxMeasure When laying out characters, measure the distances Boolean FALSE 7 gtextFDxMeasure When laying out characters, measure the Boolean FALSE 7 gtextFDxMeasure When laying out faracters, measure the Boolean FALSE 7 gtextFDxMeasure When laying out faracters, measure the Boolean FALSE 7 gtextFDxMeasure When laying out faracters, measure the Boolean FALSE 7 gtextFDxMeasure When laying out faracters, measure the Boolean FALSE 7 gtextFDxMeasure When laying out faracters, measure the Boolean FALSE 7 gtextFDxMeasure When laying out faracters, measure the Boolean	gtextAlign	Alignment on curve:	Not applicable	1
2 Left justify 3 Right justify 4 Spread letters out to fit width 5 Spread words out to fit width 6 \$2,359,296 gtextSpacing Adjust the spacing between characters (1.0 is normal). Fixed 65,536 gtextFont Font name. String NULL 6 False if the text effect properties (gtext*) are used. Boolean FALSE 6 gtextFVertical If available, an @ font should be used. Otherwise, rotateBoolean individual characters 90 degrees counter-clockwise. 6 gtextFKern Use character pair kerning if it is supported by the font. Boolean FALSE 6 gtextFTight Adjust the spacing between characters rather than the character advance by the gtextSpacingratio. 7 Great Palse Great Remains of the standard of the space		0 Stretch each line of text to fit width		
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fGtextOK Text effect (WordArt) supported. Boolean FALSE gtextFReverseRows Reverse row order. Boolean FALSE	gtextFSmallcaps	Small caps font (if available).	Boolean	FALSE
gtextFReverseRows Reverse row order. Boolean FALSE	gtextFStrikethrough	Strikethrough font (if available).	Boolean	FALSE
	fGtextOK	Text effect (WordArt) supported.	Boolean	FALSE
gtextRTF RTF text string. String NULL	gtextFReverseRows	Reverse row order.	Boolean	FALSE
	gtextRTF	RTF text string.	String	NULL

Property	Meaning		Type of value	Default	
 Picture					
cropFromTop	Top cropping	percentage.	Fixed	0	
cropFromBottom		ing percentage.	Fixed	0	
cropFromLeft	Left cropping		Fixed	0	
cropFromRight		ight cropping percentage.		0	
pib	Binary picture		Picture	NULL	
pibFlags		d pictures (see lineFillBlipFlags for more	Not applicable	0	
	0 No lir	nks (default)			
	10 Link	to file; save with document			
	14 Link	to file; do not save picture with document			
pibName	Picture file na	me that is used to link to file pictures.	String	NULL	
pibPrint	Blip to display	when printing.	Picture	NULL	
pibPrintFlags	Flags:		Not applicable	0	
	0 No lii	nks (default)			
	10 Link	to file; save with document			
	14 Link	to file; do not save picture with document			
pibPrintName	Blip file name		String	NULL	
pictureActive	Server is activ	ve (OLE objects only).	Boolean	FALSE	
pictureBiLevel	Display bi-leve	el.	Boolean	0	
oictureBrightness	Brightness set	tting.	Fixed	0	
pictureContrast	Contrast setti	ng.	Fixed	65,536	
pictureDblCrMod	Modification u	sed if shape has double shadow.	Color	No change	
pictureFillCrMod	Modification fo	or BW views.	Color	Undefined	
pictureGamma	Gamma corre	ction setting.	Fixed	0	
pictureGray	Display grays	cale.	Boolean	0	
pictureId	Host-defined	ID for OLE objects (usually a pointer).	Long integer	0	
pictureLineCrMod	Modification fo	or BW views.	Color	Undefined	
picturePreserveGrays	Skip grays wh	en doing color modification.	Boolean	FALSE	
pictureRecolor	Recolor black	to this color.	Color	None	
pictureRecolorExt	Extended reco	olor color.	Color	None	
pictureRecolorExtCMY	Extended reco	olor color CMY channels of CMYK.	Color	None	
pictureRecolorExtK	Extended reco	olor color K channel of CMYK.	Color	None	
pictureRecolorExtMod	Extended reco	olor color modification.	Color	Undefined	
pictureRecolorExtWzName	Extended reco	olor color CMS, CID, name.	String	NULL	
pictureTransparent	Transparent c	olor.	Color	0	
Geometry					
geoLeft	Left edge of the	ne bounds of a user-drawn shape.	Long integer	0	
деоТор	Top edge of th	ne bounds of a user-drawn shape.	Long integer	0	

Property	Meaning	Type of value	Default	
geoRight	Right edge of the bounds of a user-drawn shape.	Long integer	21,600	
geoBottom	Bottom edge of the bounds of a user-drawn shape.	Long integer	21,600	
pAdjustHandles	The adjust handle definitions – an array of values corresponding to the VML <handles> element.</handles>	Array	NULL	
pConnectionSites	Connection Site definition	Array	NULL	
pConnectionSitesDir	Connection Site definition	Array	NULL	
pFragments	Fragments are optional, additional parts to the shape. They allow the shape to contain multiple paths and parts. This property lists the fragments of the shape.	Array	NULL	
pGuides	Guide formulas—an array of elements that correspond to the VML <formulas> element, where each array entry is a single <f> entry.</f></formulas>	Array	NULL	
pInscribe	The inscribed rectangle definition.	Array	NULL	
pSegmentInfo	The segment information.	Array	NULL	
pVerticies	The points of the shape.	Array	NULL	
shapePath	If the pSegmentInfo array is empty or missing the shapePath property is used to generate appropriate information for a figure which is either closed or open with sides composed solely of straight lines or Bezier curves.			
adjustValue	First adjust value from an adjust handle. The interpretation varies with the shape type. Adjust values alter the geometry of the shape in smart ways.	Integer	0	
adjust2Value	Second adjust value.	Long integer	0	
adjust3Value	Third adjust value.	Long integer	0	
adjust4Value	Fourth adjust value.	Long integer	0	
adjust5Value	Fifth adjust value.	Long integer	0	
adjust6Value	Sixth adjust value.	Long integer	0	
adjust7Value	Seventh adjust value.	Long integer	0	
adjust8Value	Eighth adjust value.	Long integer	0	
adjust9Value	Ninth adjust value.	Long integer	0	
adjust10Value	Tenth adjust value.	Long integer	0	
Grouped Shapes				
borderBottomColor	Bottom border color.	Color	None	
borderLeftColor	Left border color.	Color	None	
borderRightColor	Right border color.	Color	None	
borderTopColor	Top border color.	Color	None	
dhgt	Word 2007 Z-order position of shape(s) on a page. Shapes with small dhgt s are further back than shapes with large dhgt s.	Unsigned long	0	
fClipToWrap		Boolean	FALSE	
fLockAgainstUngrouping	Do not ungroup this shape	Boolean	FALSE	
fLockPosition	Lock position	Boolean	FALSE	
fReallyHidden	TRUE if fHidden set by user	Boolean	FALSE	
fRelChangePage	Anchor may change page.	Boolean	FALSE	

Property	Meani	ing	Type of value	Default	
fRelFlipH		al flip of an object inside a group, relative to its ner and applied after the rotation.	Boolean	FALSE	
fRelFlipV		ntal flip of an object inside a group, relative to its ner and applied after the rotation.	Boolean	FALSE	
fScriptAnchor	Visual	cue to indicate presence of script block	Boolean	FALSE	
fUserDrawn	TRUE i	f UserDrawn shape on PPT master	Boolean	FALSE	
groupBottom	necess betwe	s the height of the group rectangle, but does not sarily indicate position on the page. The difference en groupBottom and groupTop should match the sions specified by \shptopN and \shpbottomN.		20,000	
groupLeft	necess betwe	s the width of the group rectangle, but does not sarily indicate position on the page. The difference en groupLeft and groupRight should match the sions specified by \shpleftN and \shprightN .	Twips	0	
groupRight	See m	eaning for groupLeft .	Twips	20,000	
groupTop	See m	eaning for groupBottom .	Twips	0	
lidRegroup	Regro	up ID.	Long integer	0	
relBottom	(used	s the bottom of a shape within its parent shape for shapes in a group). The measurement is e to the position of the parent group or drawing.	Twips	1	
relLeft	for sha	Defines the left of a shape within its parent shape (used Twips for shapes in a group). The measurement is relative to the position of the parent group or drawing.			
relRight	(used	s the right of a shape within its parent shape for shapes in a group). The measurement is e to the position of the parent group or drawing.	Twips	1	
relRotation	which parent the po	sents the information stored in the site of a shape defines the size and location of the shape in the group or drawing. The coordinates are relative to sition of the parent group or drawing. The units ative to the m_rcg of the parent.		0	
relTop	for sha	s the top of a shape within its parent shape (used apes in a group). The measurement is relative to sition of the parent group or drawing.	Twips	0	
scriptLang	Script	Language of script attached to shape	Long integer	1	
	N	Script Language			
	1	JavaScript			
	2	VBScript			
	3	ASP			
	4	Other given by wzScriptLangAttr			
tableProperties	Table	flags with nonzero bit meanings	Long integer	0	
	Bit	Nonzero meaning			
	0	Group is a PowerPoint table			
	1	Table is a placeholder			
	2	Right-to-left table (Middle East)			
tableRowProperties		of integers which are the minimal heights for each used when resizing the table as a reaction to text es.	ı Array	NULL	

Meaning

Property

Type of value Default

Fioperty	Mean	iiiig	Type of value	Delauit
wzApplet		et Body - not really a shape - visual cue to indicate nce of an applet block.	String	NULL
wzAppletArg	Apple	et tag arguments.	String	NULL
wzDescription	Alterr	nate text.	String	NULL
wzName		e name (only set through Microsoft Visual® Basic oplications).	String	NULL
wzScript	Script	t (JavaScript, VBScript etc) attached to shape.	String	NULL
wzScriptExtAttr		nded Script Attributes (other than Lang, Id) of (VBScript etc) attached to shape.	String	NULL
wzScriptIdAttr		de null-terminated string name of the scripting age used for the script on a shape.	String	NULL
wzScriptLangAttr	Lang shape	Script Attribute of script(VBScript etc) attached to e.	String	NULL
wzTooltip	Toolti	p for the hyperlink in the shape.	String	NULL
wzWebBot		pe represents a FrontPage webbot, this is the nt attached.	Strin	NULL
Fill				
fillType	Туре		Fill type	0
	0	Solid color		
	1	Pattern (bitmap)		
	2	Texture (pattern with its own color map)		
	3	Picture centered in the shape		
	4	Shade from start to endpoints		
	5	Shade from bounding rectangle to endpoint		
	6	Shade from shape outline to endpoint		
	7	Shade using the fillAngle		
	8	Shade to title (for PowerPoint)		
	9	Background fill color/pattern		
fillColor		round color.	Color	White
fillColorExt		ided fill color.	Color	None
fillColorExtCMY	Exten	ded fill color CMY channels of CMYK.	Color	None
fillColorExtK		ded fill color K channel of CMYK.	Color	None
fillColorExtMod		ided line color modification.	Color	Undefined
fillColorExtWzName	Exten	ded foreground color CMS, CID, Name	String	NULL
fillBackColor	_	ground color.	Color	White
fillBackColorExt		ded fill background color.	Color	None
fillBackColorExtCMY		ded fill background color CMY channels of CMYK.	Color	None
fillBackColorExtK		ded fill background color K channel of CMYK.	Color	None
IfillBackColorExtMod	Exten	ded fill background color modification.	Color	Undefined
fillBackColorExtWzName	Exten	ded background color CMS, CID, Name	String	NULL
fillOpacity	Opaci	ty.	Fixed	65,536
fillBackOpacity	Opaci	ty for shades only.	Fixed	65,536

Property	Meaning	Type of value	Default
fillBlip	Pattern or texture picture for the fill.	Picture	NULL
fillBlipName	Picture file name for custom fills.	String	NULL
fillBlipflags	Flags for fills (see lineFillBlipFlags for more values):	Not applicable	0
	0 No links (default)		
	10 Link to file; save picture with document		
	14 Link to file; do not save picture with docum	nent	
fillWidth	Exand the pattern or tile to approximately this size.	EMU	0
fillHeight	Expand the pattern or tile to approximately this size	e. EMU	0
fillAngle	Fade angle specified in 1/65536ths of a degree.	Fixed	0
fillFocus	Linear shaded fill focus percent.	Not applicable	0
fillToLeft	The fillToLeft , fillToTop , fillToRight , and fillToBottom values define the "focus" rectangle for concentric shapes; they are specified as a fraction couter rectangle of the shade.		0
fillToTop	See meaning for fillToLeft.	Fixed	0
fillToRight	See meaning for fillToLeft .	Fixed	0
fillToBottom	See meaning for fillToLeft .	Fixed	0
fillShadeColors	Custom or preset color ramps for graduated fills on shapes.	Array	NULL
fillOriginX	When a textured fill is used, the texture may be aligned with the shape (fFillShape)—if this is done, the detailingment is to the upper left. The values FillOrigin FillShapeOriginX , and fillShapeOriginY allow an arbitrary position in the texture (relative to the upp left proportion of the texture's height and width) to aligned with an arbitrary position on the shape (relative to the upper-left proportion of the width and height the bounding box).	rault NY, er be utive	0
	Note all these values are fixed point fractions of the relevant width or height.	9	
fillOriginY	See meaning for fillOriginX .	Fixed	0
fillShapeOriginX	See meaning for fillOriginX .	Fixed	0
fillShapeOriginY	See meaning for fillOriginX .	Fixed	0
fFilled	The shape is filled.	Boolean	TRUE
fillCrMod	Modification for BW views	Color	Undefined
fillDztype	Measurement type:	Measurement	0
	0 Default size, ignore the values	type	
	1 Values are in EMUs		
	2 Values are in pixels		
	3 Values are fixed fractions of the shape size		
	4 Aspect ratio is fixed		
	5 EMUs, fixed aspect ratio		
	6 Pixels, fixed aspect ratio		
	7 Proportion of shape, fixed aspect ratio		
	8 Aspect ratio is fixed, favor larger size		
	9 EMUs, fixed aspect ratio		

Property	Mean	Meaning		Default
	10	Pixels, fixed aspect ratio		
	11	Proportion of shape, fixed aspect ratio		
fillRectBottom		aded fills, use the specified rectangle instead of ape's bounding rectangle to define how large the vill be.	EMU	0
fillRectLeft		aded fills, use the specified rectangle instead of ape's bounding rectangle to define how large the ill be.	EMU	0
fillRectRight		aded fills, use the specified rectangle instead of ape's bounding rectangle to define how large the ill be.	EMU	0
fillRectTop		aded fills, use the specified rectangle instead of ape's bounding rectangle to define how large the vill be.	EMU	0
fillShadeColors	Preset	array of colors.	Array	NULL
fillShadePreset	Specia	al shades.	Long integer	0
fillShadeType	Type o	of shading, if using a shaded (gradient) fill.	Shade type	Default
fillShape	Regist	er pattern on shape.	Boolean	TRUE
fillUseRect	Use th	e large rectangle.	Boolean	FALSE
fillWidth	Size o	f a metafile texture.	EMU	0
fFillOK		whether the shape can be filled through the user ace (UI) or Visual Basic for Applications.	Boolean	TRUE
fFillShadeShapeOK	shape FALSE	E, a concentric shade (repeatedly drawing the at a decreasing size) is permitted for this path. If i, a concentric shade is not permitted (generally se the repeated drawing will overwrite the shape lary).	Boolean	FALSE
fRecolorFillAsPicture	Recold	or a picture fill from picture fill properties	Boolean	FALSE
Line				
fLine	Has a	line.	Boolean	TRUE
fLineOK	Line s	tyle may be set.	Boolean	TRUE
fLineRecolorFillAsPicture	Recol	or a picture fill from picture fill properties	Boolean	FALSE
fLineUseShapeAnchor	Fit fill	to the shape anchor, not the bounds	Boolean	FALSE
fColumnLine	Has a	line.	Boolean	FALSE
fColumnLineOK	Colum	nn style may be set	Boolean	FALSE
fBottomLine	See fl	ine	Boolean	TRUE
fLeftLine	See fl	ine	Boolean	TRUE
fRightLine	See fl	ine	Boolean	TRUE
fTopLine	See fl	ine	Boolean	TRUE
lineColor	Color	of the line.	Color	Black
lineColorExt	Exten	ded line color.	Color	None
lineColorExtCMY	Exten	ded line color CMY channels of CMYK.	Color	None
lineColorExtK	Exten	ded line color K channel of CMYK.	Color	None
lineColorExtMod	Exten	ded line color modification.	Color	Undefined
		round color of the pattern.	Color	

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IneBackColorExt Extended background color. Color None	Property	Mear	ning	Type of value	Default
BineBackColorExtMod Extended background color modification. Color Mone lineAckColorExtMod Extended background color modification. Color Undefined lineType Type of Imperimental background color modification. Line type 0 10 Solid fill with the lineFillBilp 1 Line type 0 10 Pattured fill with the lineFillBilp 1 Vecture MUL lineFillBilp Flags Pleture fill with the lineFillBilp No tapplicable MUL lineFillBilp Flags Flags the the lines No to dapplicable 0 10 No links (default) No to applicable 0 11 Link to file No not save picture with document 4 1 12 Inink to file; do not save picture with document 1<	lineBackColorExt	Exter	nded background color.	Color	None
InterBackColorExtMod Extended color modification. Color Undefined lineType Type of Isl with the line color Line type 0 All Path Path Path Path Path Path Path Path	lineBackColorExtCMY	Exter	nded background color CMY channels of CMYK.	Color	None
Interpreciation Type of Irre Interpreciation Interpreciat	lineBackColorExtK	Exter	nded background color K channel of CMYK.	Color	None
1	lineBackColorExtMod	Exter	nded background color modification.	Color	Undefined
1	lineType	Type	of line:	Line type	0
Part		0	Solid fill with the line color		
BineFillBlip		1	Patterned fill with the lineFillBlip		
InneFillBlipPlags Picture Place Innes: Picture Not applicable NUL InneFillBlipPlags Flags to Texterned lines: Not applicable 9 10 No Innks (default) 4 14 <		2	Textured fill with the lineFillBlip		
Flags Fla		3	Picture fill with the lineFillBlip		
No links (default) 2 Blip name is a URL 4 Do not save picture 4 Do not save picture 4 Do not save picture 4 Do not save picture with document 4 Link to file; save picture with document 3 Link to file; do not save picture with document 3 Do send (link is from suspicious source) 6 Safe to send (link is from suspicious source) 6 BMU O O O O O O O O O	lineFillBlip	Patte	rn for the line.	Picture	NULL
1	lineFillBlipFlags	Flags	for patterned lines:	Not applicable	0
A		0	No links (default)		
Recommendation Reco		2	Blip name is a URL		
10 Link to file; save picture with document 14 Link to file; do not save picture with document 14 Link to file; do not save picture with document 15 Age to send (link is from suspicious source) 16 Age to send (link is from safe source) 16 BMU 0 CBMU 0 C		4	Do not save picture		
14		8	Link to file		
1		10	Link to file; save picture with document		
Idea of Safe to send (link is from safe source) line Fill Width Width of the pattern. EMU 0 line Fill Height Height of the pattern. EMU 0 line Fill Shape Register on shape. Boolean TRUE line Width Width of the line. EMU 9,525 (0.75pt) line Style Line style 2 1 (0.00 bl lines) of equal width 1 (0.00 bl lines) of equal width 2 (0.00 bl lines) one thick, one thin 2 (0.00 bl lines, reverse order 2 (0.00 bl lines, reverse order 2 (0.00 bl lines, reverse order 2 (0.00 bl lines) 2 (0.00 bl lines) <td< td=""><td></td><td>14</td><td>Link to file; do not save picture with documer</td><td>nt</td><td></td></td<>		14	Link to file; do not save picture with documer	nt	
lineFillWidth Width of the pattern. EMU 0 lineFillHeight Height of the pattern. EMU 0 lineFillShape Register pattern on shape. Boolean TRUE lineWidth Width of the line. EMU 9,525 (0.75pt) lineStyle Line style 0 Single line (of width lineWidth) Line style 0 1 Double lines of equal width 2 Double lines, one thick, one thin 3 Double lines, reverse order 4 Three lines, thin, thick, thin Dash style 0 0 lineDashing Dashing Dashed line 1 Dashed line (Windows) 1 <td></td> <td>32</td> <td>No send (link is from suspicious source)</td> <td></td> <td></td>		32	No send (link is from suspicious source)		
lineFillHeight Height of pattern. EMU 0 lineFillShape Register pattern on shape. Boolean TRUE lineWidth Width of the line. EMU 9,525 (0.75pt) lineStyle Line style 0 0 Single line (of width lineWidth) 1 Double lines of equal width 1 Double lines, one thick, one thin 3 Double lines, one thick, one thin 3 Double lines, reverse order 4 Three lines, thin, thick, thin lineDashing Dash style 0 0 Solid line 1 Dashed line (Windows) Pashed line (Windows) 2 Dotted line (Windows) Fashed thine (Windows) 3 Dash-dotted line (Windows) Fashed line 5 Dotted line Fashed line 6 Dashed line Fashed line 7 Long dashed line Fashed line 8 Dash-dotted line Fashed line 9 Long dash-dotted line Fashed line		64	Safe to send (link is from safe source)		
lineFillShape Register pattern on shape. Boolean TRUE lineWidth Width of the line. EMU 9,525 (0.75pt) lineStyle Line style 0 0 Single line (of width lineWidth) Line style 0 1 Double lines of equal width 2 Double lines, one thick, one thin 3 Double lines, reverse order 4 Three lines, thin, thick, thin Dash style 0 0 lineDashing Dash Solid line Dashed line (Windows) 2 Dotted line (Windows) 4 Dashed line (Windows) 4 Pash-dotted line (Windows) 4 Dash-dotted line (Windows) 4 Dash-dotted line (Windows) 4 Dashed line	lineFillWidth	Width	of the pattern.	EMU	0
lineWidth Width of the line. EMU 9,525 (0.75pt) lineStyle Line style 0 0 Single line (of width lineWidth) 1 Double lines of equal width 1 Double lines, one thick, one thin 2 Double lines, reverse order 4 Three lines, thin, thick, thin Dash style 0 1 Dashed line (Windows) 4 Dashed line (Windows) 2 Dotted line (Windows) 4 Dash-dotted line (Windows) 4 Dash-dotted line (Windows) 4 Dash-dotted line (Windows) 5 Dotted line 4 Dash-dotted line (Windows) 6 Dashed line 4 Dashed line 7 Long dashed line 4 Dash-dotted line 8 Dash-dotted line 4 Dash-dotted line	lineFillHeight	Heigh	nt of the pattern.	EMU	0
lineStyle Line style: 0 Single line (of width lineWidth) 1 Double lines of equal width 2 Double lines, one thick, one thin 3 Double lines, reverse order 4 Three lines, thin, thick, thin lineDashing Dashing: Dash style 0 Dash style 0 Solid line 1 Dashed line (Windows) 2 Dotted line (Windows) 3 Dash-dotted line (Windows) 4 Dash-dotted line (Windows) 5 Dotted line 6 Dashed line 7 Long dashed line 8 Dash-dotted line 9 Long dash-dotted line	lineFillShape	Regis	ter pattern on shape.	Boolean	TRUE
0 Single line (of width lineWidth) 1 Double lines of equal width 2 Double lines, one thick, one thin 3 Double lines, reverse order 4 Three lines, thin, thick, thin lineDashing Dashing: Dashing: Dash style	lineWidth	Width	n of the line.	EMU	9,525 (0.75pt)
1 Double lines of equal width 2 Double lines, one thick, one thin 3 Double lines, reverse order 4 Three lines, thin, thick, thin lineDashing Dashing: Dash style O Solid line 1 Dashed line (Windows) 2 Dotted line (Windows) 3 Dash-dotted line (Windows) 4 Dash-dot-dotted line (Windows) 5 Dotted line 6 Dashed line 7 Long dashed line 8 Dash-dotted line 9 Long dash-dotted line	lineStyle	Line s	style:	Line style	0
Double lines, one thick, one thin Double lines, reverse order Three lines, thin, thick, thin Dashing: Dash style O Solid line Dashed line (Windows) Double lines, reverse order Indicator Dashed line (Windows) Double lines, reverse order Double lines Double lines, reverse order Double lines, re		0	Single line (of width lineWidth)		
3 Double lines, reverse order 4 Three lines, thin, thick, thin Dashing: Dash style O Solid line 1 Dashed line (Windows) 2 Dotted line (Windows) 3 Dash-dotted line (Windows) 4 Dash-dotted line (Windows) 5 Dotted line 6 Dashed line 7 Long dashed line 8 Dash-dotted line 9 Long dash-dotted line		1	Double lines of equal width		
IineDashing Dashing: Dash style O Solid line Dashed line (Windows) Dash-dotted line Dashed line Dashed line Dash-dotted line Dash-dotted line Dash-dotted line		2	Double lines, one thick, one thin		
Dashing Dashing: Dash style		3	Double lines, reverse order		
O Solid line 1 Dashed line (Windows) 2 Dotted line (Windows) 3 Dash-dotted line (Windows) 4 Dash-dot-dotted line (Windows) 5 Dotted line 6 Dashed line 7 Long dashed line 8 Dash-dotted line 9 Long dash-dotted line		4	Three lines, thin, thick, thin		
Dashed line (Windows) Dotted line (Windows) Dash-dotted line (Windows) Dotted line (Windows) Dotted line Dashed line Dashed line Long dashed line Dash-dotted line Long dash-dotted line	lineDashing	Dashi	ing:	Dash style	0
Dotted line (Windows) Dash-dotted line (Windows) Dash-dot-dotted line (Windows) Dotted line Dashed line Long dashed line Dash-dotted line Long dash-dotted line Long dash-dotted line		0	Solid line		
Dash-dotted line (Windows) Dash-dot-dotted line (Windows) Dotted line Dashed line Long dashed line Dash-dotted line Long dash-dotted line Long dash-dotted line		1	Dashed line (Windows)		
Dash-dot-dotted line (Windows) Dotted line Dashed line Long dashed line Dash-dotted line Long dash-dotted line Long dash-dotted line		2	Dotted line (Windows)		
5 Dotted line 6 Dashed line 7 Long dashed line 8 Dash-dotted line 9 Long dash-dotted line		3	Dash-dotted line (Windows)		
Dashed line Long dashed line Dash-dotted line Long dash-dotted line		4	Dash-dot-dotted line (Windows)		
 Long dashed line Dash-dotted line Long dash-dotted line 		5	Dotted line		
8 Dash-dotted line 9 Long dash-dotted line		6	Dashed line		
9 Long dash-dotted line		7	Long dashed line		
		8	Dash-dotted line		
10 Long dash-dot-dotted line		9	Long dash-dotted line		
		10	Long dash-dot-dotted line		

Property	Mean	ing	Type of value	Default
lineStartArrowhead	Start arrow type:		Arrow type	0
	0	Nothing		
	1	Arrow		
	2	Stealth arrow		
	3	Diamond		
	4	Oval		
	5	Open arrow		
	6	Chevron arrow		
	7	Double chevron arrow		
lineEndArrowhead	End arrow type (for acceptable values see meaning for Arrow type lineStartArrowhead).		0	
lineStartArrowWidth	Start arrow width:		Arrow width	1
	0	Narrow		
	1	Medium		
	2	Wide		
lineStartArrowLength	Start	arrow length:	Arrow length	1
	0	Short		
	1	Medium		
	2	Long		
ineEndArrowWidth	End arrow width (for acceptable values see meaning for Arrow width lineStartArrowWidth).		1	
ineEndArrowLength	End arrow length (for acceptable values see meaning for Arrow length lineStartArrowLength).			1
ineCrMod	Modification for Black and White views.		Color	undefined
ineDashStyle	Line dash style. A		Array	NULL
lineEndCapStyle	Line cap style for shape:		Line cap style	2
	0	Round		
	1	Square		
	2	Flat		
ineFillBlipName	Blip fi	le name.	String	NULL
lineFillDztype	fillWidth/Height numbers:		Measurement	0
	0	Default size, ignore the values	type	
	1	Values are in EMUs		
	2	Values are in pixels		
	3	Values are fixed fractions of shape size		
	4	Aspect ratio is fixed		
	5	EMUs, fixed aspect ratio		
	6	Pixels, fixed aspect ratio		
	7	Proportion of shape, fixed aspect ratio		
	8	Aspect ratio is fixed, favor larger size		
	9	EMUs, fixed aspect ratio		
	10	Pixels, fixed aspect ratio		

Meaning

Size of a metafile texture.

11

Property

lineFillHeight

Default

0

Type of value

EMU

illerillrieight	Size of a metanie texture.	LIMO	U
lineJoinStyle	Line join style for shape:	Line join style	2
	0 Join edges by a straight line		
	1 Extend edges until they join		
	2 Draw an arc between the two edges		
lineMiterLimit	Ratio of width.	Fixed	524,288
lineOpacity	Opacity level of foreground color ranging from 0 (completely transparent) to 65536 (completely opaque).	Long integer	65536
lineBottom	Bottom border properties: see corresponding line entry for definition		
lineColumn	Column properties: see corresponding line entry for definition		
lineLeft	Left border properties: see corresponding line entry for definition		
lineRight	Right border properties: see corresponding line entr for definition	y	
lineTop	Top border properties: see corresponding line entry for definition		
Shadow			
shadowType	Type of shadow:	Not applicable	0
	0 Offset shadow		
	1 Double offset shadow		
	2 Rich perspective shadow (cast relative to shape)		
	3 Rich perspective shadow (cast in shape space)		
	4 Perspective shadow (cast in drawing space)		
	6 Emboss or engrave		
shadowColor	Foreground color.	Color	RGB (128,128,128)
shadowColorExt	Extended shadow color.	Color	None
shadowColorExtCMY	Extended shadow color CMY channels of CMYK.	Color	None
shadowColorExtK	Extended shadow color K channel of CMYK.	Color	None
shadowColorExtMod	Extended shadow color modification.	Color	Undefined
shadowHighlight	Embossed color.	Color	RGB (203,203,203)
shadowHighlightExt	Extended highlight color.	Color	None
shadowHighlightExtCMY	Extended highlight color CMY channels of CMYK.	Color	None
shadowHighlightExtK	Extended highlight color K channel of CMYK.	Color	None
shadowHighlightExtMod	Extended highlight color modification.	Color	Undefined
shadowOpacity	Opacity of the shadow.	Fixed	65,536
Siladowopacity			0
shadowOffsetX	Shadow offset toward the right.	EMU	0
	Shadow offset toward the right. Shadow offset toward the bottom.	EMU EMU	0

Proportion of shape, fixed aspect ratio

Property	Meaning	Type of value	Default	
shadowSecondOffsetY	Double shadow offset toward the bottom.	EMU	25,400	
shadowScaleXToX	The shadowScaleXToX to shadowWeight define a 3x2 transform matrix that is applied to the shape to generate the shadow.	Fixed	65,536	
shadowScaleYToX	See meaning for shadowScaleXToX .	Fixed	0	
shadowScaleXToY	See meaning for shadowScaleXToX .	Fixed	0	
shadowScaleYToY	See meaning for shadowScaleXToX .	Fixed	65,536	
shadowPerspectiveX	See meaning for shadowScaleXToX .	Fixed	0	
shadowPerspectiveY	See meaning for shadowScaleXToX .	Fixed	0	
shadowWeight	See meaning for shadowScaleXToX .	Fixed	32,768	
shadowOriginX	Defines the position of the origin relative to the center of the shape— this position is determined based on a proportion of the <i>rotated</i> shape width and height. The shape is rotated and then positioned such that the poin is at (0,0) before the transformation is applied.	Fixed	0	
ShadowOriginY	See meaning for shadowOriginX .	Fixed	0	
fShadow	Turns the shadow on or off.	Boolean	FALSE	
shadowCrMod	Modification for BW views.	Color	Undefined	
fshadowObscured	Microsoft Excel® 5 style shadow.	Boolean	FALSE	
fShadowOK	Shadow may be set.	Boolean	TRUE	
3D Effects				
c3DSpecularAmt	Specular amount for the material.	Fixed	0	
c3DDiffuseAmt	Diffusion amount for the material.	Fixed	65,536	
c3DShininess	Shininess of the material.	Long integer	5	
c3DEdgeThickness	Specular edge thickness.	EMU	12,700	
c3DExtrudeForward	Extrusion amount forward.	EMU	0	
c3DExtrudeBackward	Extrusion amount backward.	EMU	457,200	
c3DExtrudePlane	This allows extrusion from planes orthogonal to the screen plane. It is not used in Office 97 or later. Valid values are 0, 1 and 2 for no-extrusion, forward extrusion, and backward extrusion, respectively. If nonzero, c3DExtrudeForward and c3DExtrudeBackward are specified in drawing units instead of EMUs. Recommendation: omit or use 0.	Long integer	0	
c3DExtrusionColor	Extrusion color.	Color		
c3DExtrusionColorExt	Extended extrusion color.	Color	None	
c3DExtrusionColorExtCMY	Extended extrusion color CMY channels of CMYK.	Color	None	
c3DExtrusionColorExtK	Extended extrusion color K channel of CMYK.	Color	None	
c3DExtrusionColorExtMod	Extended extrusion color modification.	Color	Undefined	
f3D	True if shape has a three-dimensional (3D) effect, False if it does not.	Boolean	FALSE	
fc3DMetallic	True if shape uses metallic specularity, False if it does not.	Boolean	FALSE	
fc3DUseExtrusionColor	Extrusion color is set explicitly.	Boolean	FALSE	
fc3DLightFace	Light the face of the shape.	Boolean	TRUE	

Property	Meaning	Type of value	Default	
c3DYRotationAngle	Degrees about y-axis.	Angle	0	
	If fc3DConstrainRotation (a Boolean property which defaults to True) is True , then the rotation is restricte to x-y rotation. In addition, the final rotation results from first rotating by c3DYRotationAngle degrees about the y-axis and then by c3DXRotationAngle degrees about the z-axis.	d		
	If fc3DConstrainRotation is False, then the final rotation results from a single rotation of c3DRotationAngle about the axis specified by c3DRotationAxisX, c3DRotationAxisY, and c3DRotationAxisZ.			
c3DXRotationAngle	Degrees about x-axis.	Angle	0	
c3DRotationAxisX	These keywords specify the rotation axis. Only their relative magnitudes matter.	Long integer	100	
c3DRotationAxisY	See meaning for c3DYRotationAxisX.	Long integer	0	
c3DRotationAxisZ	See meaning for c3DYRotationAxisX.	Long integer	0	
c3DRotationAngle	The rotation about the axis (defined previously in the c3DRotationAxisX, Y, and Z parameter sections)	Angle	0	
fc3DRotationCenterAuto	If fC3DRotationCenterAuto is True, then the rotatio will be about the center of the 3-D bounding cube of the 3-D group; otherwise, the rotation center will be about c3DRotationCenterX, c3DRotationCenterY, and c3DRotationCenterZ.	ie	FALSE	
c3DRotationCenterX	Rotation center (X).	Fixed	0	
	The \mathbf{X} and \mathbf{Y} values are a 16.16 fraction of the geomet width and height, with (0,0) being at the center of the geometry. The \mathbf{Z} value must be in absolute units (EMUs).	ry		
c3DRotationCenterY	Rotation center (Y).	Fixed	0	
	If fC3DRotationCenterAuto is True, then the rotatio will be about the center of the 3-D bounding cube of th 3-D group; otherwise, the rotation center will be about c3DRotationCenterX, c3DRotationCenterY, and c3DRotationCenterZ.	ie		
	The \mathbf{X} values and \mathbf{Y} values are a fraction of the geometry width and height, with $(0,0)$ being at the center of the geometry. The \mathbf{Z} value is in absolute unit	S.		
c3DRotationCenterZ	See meaning for c3DRotationCenterY.	EMU	0	
c3DRenderMode	0 Render with full detail	Long integer	Not applicable	
	1 Render as a wireframe			
	2 Render a bounding cube			
c3DXViewpoint	X view point.	EMU	1,250,000	
c3DYViewpoint	Y view point.	EMU	-1,250,000	
c3DZViewpoint	Z view distance.	EMU	9,000,000	

Property	Meaning	Type of value	Default
c3DOriginX	The following c3DOriginY and c3DSkewAngle values define the origin relative to the viewpoint origin measured.	Fixed	32,768
	These values are 16.16 numbers that specify the position of the origin within the shape bounding box, as multiples of the width and height of that bounding box and relative to the center (that is, they are displaced from the center). When these values are applied the actual transformed shape path is used, rather than the shape geometry (compare with the shadow and perspective values that work on the geometry bounding box, not the actual points). This means that a shape that extends outside the geometry bounding box (such as a text effect) is handled "correctly" for the calculation of the 3-D origin.	ı	
c3DOriginY	See meaning for c3DOriginX .	Fixed	-32,768
c3DSkewAngle	Skew angle.	Fixed	-8,847,360
c3DSkewAmount	Percentage skew amount.	Long integer	50
c3DAmbientIntensity	Ambient intensity should be low (0 to .1) to avoid washed out appearance.	Fixed	20,000
c3DKeyX	Key light source direction. Values may be any number; only their relative magnitudes matter.	Long integer	50,000
c3DKeyY	See meaning for c3DKeyX .	Long integer	0
c3DKeyZ	See meaning for c3DKeyX .	Long integer	10,000
c3DKeyIntensity	Fixed point intensity. Theoretical maximum is 1, but may be higher.	Fixed	38,000
c3DFillX	Fill light source direction; only the relative magnitude matters. This direction defines a second light source arbitrarily called the "fill light." Generally this is positioned 90-180 degrees away from the key light and very roughly in front of the scene to fill in any harsh shadows. This fill is dim compared to the first light source. Theoretically it should be non-harsh, but harsh fill lighting looks better sometimes.	Long integer	-50,000
c3DFillY	See meaning for c3DFillX .	Long integer	0
c3DFillZ	See meaning for c3DFillX .	Long integer	10,000
c3DFillIntensity	Theoretical maximum is 1, but may be higher.	Fixed	38,000
fc3DParallel	True if the fill has parallel projection, False if it does not. If fc3DParallel is True , the fc3DKeyHarsh and fc3DFillHarsh properties determine the parallel projection used. A skew amount of 0 means the projection is orthographic.	Boolean	TRUE
fc3DKeyHarsh	True if key lighting is harsh, False if it is not.	Boolean	TRUE
fc3DFillHarsh	True if fill lighting harsh, False if it is not.	Boolean	FALSE
c3DCrMod	Modification for BW views.	Color	Undefined
c3DTolerance	3D tolerance.	Fixed	30,000
f3DOK	3D can be set.	Boolean	TRUE

Property	Mear	ning	Type of value	Default
fc3DConstrainRotation	and t c3DY rotati FALSI rotati	JE, then, the rotation is restricted to x-y rotation he final rotation results from first rotating by Rotation degrees about the y-axis and then by ng c3DXRotation degrees about the z-axis. If E, then the final rotation results from a single on of c3DRotationAngle about the axis specified by otationAxisX,Y,and Z.	Boolean y	TRUE
Perspective				
perspectiveOffsetX		The values define a transformation matrix. Each value is scaled by the <i>perspectiveWeight</i> parameter.		0
perspectiveOffsetY	See n	neaning for perspectiveOffsetX.	Fixed	0
perspectiveOriginX	Persp	ective x origin.	Fixed	32,768
perspectiveOriginY	Persp	ective y origin.	Fixed	32,768
perspectivePerspectiveX	See n	neaning for perspectiveOffsetX.	Fixed	0
perspectivePerspectiveY	See n	neaning for perspectiveOffsetX.	Fixed	0
perspectiveScaleXToX	See n	neaning for perspectiveOffsetX.	Fixed	65,536
perspectiveScaleXToY	See n	neaning for perspectiveOffsetX.	Fixed	0
perspectiveScaleYToX	See n	neaning for perspectiveOffsetX.	Fixed	0
perspectiveScaleYToY	See n	neaning for perspectiveOffsetX.	Transform type	65,536
perspectiveType	When	e transform applies:	Fixed	1
	0	Absolute		
	1	Shape		
	2	Drawing		
perspectiveWeight	Scalir	ng factor.	Boolean	256
fPerspective	On/off.			Not applicable
Callout				
spcot	Callo	ut type:	Not applicable	3
	1	Right angle		
	2	One segment		
	3	Two segments		
	4	Three segments		
dxyCalloutGap		nce from box to first point.	EMU	76,200
spcoa		ut angle:	Not applicable	1
	0	Any angle		
	1	30 degrees		
	2	45 degrees		
	3	60 degrees		
	4	90 degrees		

Property	Meaning	Type of value	Default	
spcod	Callout drop type:		3	
	0 Тор			
	1 Center			
	2 Bottom			
	3 Specified by dxyCalloutDropSpecified			
dxyCalloutDropSpecified	If spcod is 3, then this holds the actual drop distance.	EMU	114,300	
dxyCalloutLengthSpecified	In the case where fCalloutLengthSpecified is True , this holds the actual distance.	EMU	0	
fCallout	This is a callout.	Boolean	FALSE	
fCalloutAccentBar	Callout has an accent bar.	Boolean	FALSE	
fCalloutTextBorder	Callout has a text border.	Boolean	TRUE	
fCalloutDropAuto	True if Auto attach is on. False if it is off. If this is True , then the converter should occasionally invert the drop distance.	Boolean	FALSE	
fCalloutLengthSpecified	True if the callout length is specified; False if it is not. If True , use dxyCalloutLengthSpecified . If False , the Best Fit option is on.		FALSE	
fCalloutMinusX	The polyline of the callout is to the right	Boolean	FALSE	
fCalloutMinusY	The polyline of the callout is down.	Boolean	FALSE	
fCalloutTextBorder	Callout has a text border	Boolean	TRUE	
Connectors				
cxk	Connection site type:	Connector style	1	
	0 None			
	1 Segments			
	2 Custom			
	3 Rect		2	
cxstyle	Connector style:		3	
	0 Straight			
	1 Bent			
	2 Curved			
	3 None			
Drawing Canvases and Di dgmt	agrams Diagram type:	Diagram style	Not applicable	
ugint		Diagram style	нос аррисавіе	
	0 Drawing Canvas 1 Organizational Chart			
	2 Radial Diagram			
	3 Cycle Diagram			
	4 Pyramid Diagram			
	5 Venn Diagram			
	6 Target Diagram			
dgmStyle	Diagram style, which is dependent on Diagram type:	Complex	Not applicable	
=gev,.e	Organization Chart Styles		applicable	
	0 Default			

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Property	Mean	ing	Type of value	Default
	1	Outline		
	2	Double Outline		
	3	Thick Outline		
	4	Primary Colors		
	5	Shaded		
	6	Fire		
	7	3-D Color		
	8	Gradient		
	9	Brackets		
	10	Braces		
	11	Bookend Fills		
	12	Stripes		
	13	Beveled		
	14	Beveled Gradient		
	15	Square Shadows		
	16	Wireframe		
	Radia	l Diagram Styles		
	0	Default		
	1	Outline		
	2	Double Outline		
	3	Thick Outline		
	4	Primary Colors		
	5	Shaded		
	6	Fire		
	7	3-D Color		
	8	Gradient		
	9	Square Shadows		
	Cycle	Diagram Styles		
	0	Default		
	1	Outline		
	2	Double Outline		
	3	Thick Outline		
	4	Primary Colors		
	5	Shaded		
	6	Fire		
	7	3-D Color		
	8	Gradient		
	9	Square Shadows		
	10	Default (counterclockwise)		
	11	Outline (counterclockwise)		
	12	Double Outline (counterclockwise)		
	13	Thick Outline (counterclockwise)		
	14	Primary Colors (counterclockwise)		
	15	Shaded (counterclockwise)		
	16	Fire (counterclockwise)		
	17	3-D Color (counterclockwise)		
	18	Gradient (counterclockwise)		

Property	Meaning Type of value Default		
	19 Square Shadows (counterclockwise)		
	Pyramid Diagram Styles		
	0 Default		
	1 Outline		
	2 Double Outline		
	3 Thick Outline		
	4 Primary Colors		
	5 Shaded		
	6 Fire		
	7 3-D Color		
	8 Gradient		
	9 Square Shadows		
	Venn Diagram Styles		
	0 Default		
	1 Outline		
	2 Double Outline		
	3 Thick Outline		
	4 Primary Colors		
	5 Shaded		
	6 Fire		
	7 3-D Color		
	8 Gradient		
	9 Square Shadows		
	Target Diagram Styles		
	0 Default		
	1 Outline		
	2 Double Outline		
	3 Thick Outline		
	4 Primary Colors		
	5 Shaded		
	6 Fire		
	7 3-D Color		
	8 Gradient		
	9 Square Shadows		
pRelationTbl	Complex property specifies table of relationships.	Fixed	Not applicable
dgmScaleX	The scale factor for width of a diagram.	Long integer	65,536
dgmScaleY	The scale factor for height of a diagram.	Long integer	65,536
dgmDefaultFontSize	Specifies text font size in points for new nodes in diagram.	Complex	Not applicable
dgmConstrainBounds	Specifies bounds that diagram nodes are constrained	d to Boolean	Not applicable

Property	Meaning		Type of value	Default
dgmLayout		operty specifies the node layout in a diagram, s dependent on the Diagram type:	Long integer	0
	Organiz	zation Chart Node Layout		
	0	Standard		
	1	Both Hanging		
	2	Right Hanging		
	3	Left Hanging		
dgmLayoutMRU	Most re	ecently used layout	Long integer	0
dgmNodeKind	expose	operty specifies kind of node in a diagram and is d in the RTF format. The following Diagram node re currently supported:	Long integer	
	0	Node		
	1	Root		
	2	Assistant,		
	3	CoWorker,		
	4	Subordinate,		
	5	Auxiliary Node,		
	6	Default		
fDoFormat	Specifie	es if auto formatting of a diagram is turned on.	Layout Type	0
fDoLayout	TRUE if	layout needs to be done	Boolean	TRUE
fReverse	TRUE to	o reverse diagram layout	Boolean	FALSE
Black and White Modes				
Black and White Modes bWMode		s for modifications to be made when in different of black and white mode:	Black and white mode	1
				1
	forms o	of black and white mode:		1
	forms of	of black and white mode: Color		1
	forms of 0	of black and white mode: Color Automatic		1
	forms of 0 1 2	of black and white mode: Color Automatic Grayscale		1
	forms of 0 1 2 3	of black and white mode: Color Automatic Grayscale Light grayscale		1
	forms of 0 1 2 3 4	of black and white mode: Color Automatic Grayscale Light grayscale Inverse gray		1
	forms of 0 1 2 3 4 5	of black and white mode: Color Automatic Grayscale Light grayscale Inverse gray Gray outline		1
	forms of 0 1 2 3 4 5 6	of black and white mode: Color Automatic Grayscale Light grayscale Inverse gray Gray outline Black TextLine		1
	forms of 0 1 2 3 4 5 6 7	of black and white mode: Color Automatic Grayscale Light grayscale Inverse gray Gray outline Black TextLine High contrast		1
	forms of 0 1 2 3 4 5 6 7 8	of black and white mode: Color Automatic Grayscale Light grayscale Inverse gray Gray outline Black TextLine High contrast Black		1
	forms of 0 1 2 3 4 5 6 7 8 9	of black and white mode: Color Automatic Grayscale Light grayscale Inverse gray Gray outline Black TextLine High contrast Black White		1
	forms of 0 1 2 3 4 5 6 7 8 9 10 11	of black and white mode: Color Automatic Grayscale Light grayscale Inverse gray Gray outline Black TextLine High contrast Black White Do not show		

Property	Meaning	Type of value	Default
Horizontal Line			
alignHR	Horizontal alignment:	Integer	0
	0 Left		
	1 Center		
	2 Right		
dxHeightHR	Height of a horizontal line in twips	Integer	0
dxWidthHR	Width of a horizontal line in twips	Integer	0
fHorizRule	Specifies that a shape is a horizontal rule.	Boolean	FALSE
fStandardHR	Specifies whether a shape is displayed as a standard horizontal rule.	Boolean	FALSE
fNoShadeHR	Specifies that the horizontal rule does not have 3D shading.	Boolean	FALSE
pctHR	Percentage width for a horizontal line in (in 10ths of a percent).	Integer	0

Word's RTF reader recognizes \hrule to mean insert a horizontal rule with default properties at the end of the document. It is ignored elsewhere in the document and Word writes a horizontal line shape instead of \hrule.

The format of the value depends on the property name it is paired with. Many values are simple single numbers. Distances are expressed in EMU units (English-metric units). Fractional or fixed values are expressed using units that are 1/65536th of a whole. Angles are expressed as fractions of a degree. Colors are 24-bit color values. Booleans have two possible values: 1 for **True** and 0 for **False**.

Arrays are formatted as a sequence of numbers separated by semicolons. The first number tells the size of each element in the array in bytes. The number of bytes per element may be 2, 4, or 8. When the size of the element is 8, each element is represented as a group of two numbers. The second number tells the number of elements in the array. For example, the points of a square polygon are written as:

{**sv** 8;4;{0,0};{100,0};{100,100};{0,100}}

The **ShapeType** property can have the following possible values.

Meaning	Value	Meaning
Freeform or non-autoshape	102	Curved right arrow
Rectangle	103	Curved left arrow
Round rectangle	104	Curved up arrow
Ellipse	105	Curved down arrow
Diamond	106	Cloud callout
Isosceles triangle	107	Ellipse ribbon
Right triangle	108	Ellipse ribbon 2
Parallelogram	109	Flow chart process
Trapezoid	110	Flow chart decision
Hexagon	111	Flow chart input output
Octagon	112	Flow chart predefined process
Plus Sign	113	Flow chart internal storage
	Freeform or non-autoshape Rectangle Round rectangle Ellipse Diamond Isosceles triangle Right triangle Parallelogram Trapezoid Hexagon Octagon	Freeform or non-autoshape Rectangle Round rectangle Ellipse Diamond Isosceles triangle Parallelogram Trapezoid Hexagon Octagon 102 R02 103 R03 104 105 105 105 106 107 R196 107 Right triangle 108 Parallelogram 109 Trapezoid 110 Hexagon 111

Value	Meaning	Value	Meaning
12	Star	114	Flow chart document
13	Arrow	115	Flow chart multidocument
14	Thick arrow	116	Flow chart terminator
15	Home plate	117	Flow chart preparation
16	Cube	118	Flow chart manual input
17	Balloon	119	Flow chart manual operation
18	Seal	120	Flow chart connector
19	Arc	121	Flow chart punched card
20	Line	122	Flow chart punched tape
21	Plaque	123	Flow chart summing junction
22	Can	124	Flow chart or
23	Donut	125	Flow chart collate
24	Text simple	126	Flow chart sort
25	Text octagon	127	Flow chart extract
26	Text hexagon	128	Flow chart merge
27	Text curve	129	Flow chart offline storage
28	Text wave	130	Flow chart online storage
29	Text ring	131	Flow chart magnetic tape
30	Text on curve	132	Flow chart magnetic disk
31	Text on ring	133	Flow chart magnetic drum
32	Straight connector1	134	Flow chart display
33	Bent connector 2	135	Flow chart delay
34	Bent connector 3	136	Text plain text
35	Bent connector 4	137	Text stop
36	Bent connector 5	138	Text triangle
37	Curved connector 2	139	Text triangle inverted
38	Curved connector 3	140	Text chevron
39	Curved connector 4	141	Text chevron inverted
40	Curved connector 5	142	Text ring inside
41	Callout 1	143	Text ring outside
42	Callout 2	144	Text arch up curve
43	Callout 3	145	Text arch down curve
44	Accent callout 1	146	Text circle curve
45	Accent callout 2	147	Text button curve
46	Accent callout 3	148	Text arch up pour
47	Border callout 1	149	Text arch down pour
48	Border callout 2	150	Text circle pour
49	Border callout 3	151	Text button pour
50	Accent border callout 1	152	Text curve up
51	Accent border callout 2	153	Text curve down
52	Accent border callout 3	154	Text cascade up

Value	Meaning	Value	Meaning
53	Ribbon	155	Text cascade down
54	Ribbon2	156	Text wave1
55	Chevron	157	Text wave2
56	Pentagon	158	Text wave3
57	No smoking	159	Text wave4
58	Seal8	160	Text inflate
59	Seal16	161	Text deflate
60	Seal32	162	Text inflate bottom
61	Wedge rectangle callout	163	Text deflate bottom
62	Wedge RRect callout	164	Text inflate top
63	Wedge ellipse callout	165	Text deflate top
64	Wave	166	Text deflate inflate
65	Folded corner	167	Text deflate inflate deflate
66	Left arrow	168	Text fade right
67	Down arrow	169	Text fade left
68	Up arrow	170	Text fade up
69	Left right arrow	171	Text fade down
70	Up down arrow	172	Text slant up
71	IrregularSeal1	173	Text slant down
72	IrregularSeal2	174	Text can up
73	Lightning bolt	175	Text can down
74	Heart	176	Flow chart alternate process
75	Picture frame	177	Flow chart off-page connector
76	Quad arrow	178	Callout 90
77	Left arrow callout	179	Accent callout 90
78	Right arrow callout	180	Border callout 90
79	Up arrow callout	181	Accent border callout 90
80	Down arrow callout	182	Left right up arrow
81	Left right arrow callout	183	Sun
82	Up down arrow callout	184	Moon
83	Quad arrow callout	185	Bracket pair
84	Bevel	186	Brace pair
85	Left bracket	187	Seal4
86	Right bracket	188	Double wave
87	Left brace	189	Action button blank
88	Right brace	190	Action button home
89	Left up arrow	191	Action button help
90	Bent up arrow	192	Action button information
91	Bent arrow	193	Action button forward next
92	Seal24	194	Action button back previous
93	Striped right arrow	195	Action button end

Value	Meaning	Value	Meaning	
94	Notched right arrow	196	Action button beginning	
95	Block arc	197	Action button return	
96	Smiley face	198	Action button document	
97	Vertical scroll	199	Action button sound	
98	Horizontal scroll	200	Action button movie	
99	Circular arrow	201	Host control	
100	Notched circular arrow	202	Text box	
101	U-turn arrow			

The following keywords are related to defining a hyperlink hanging off a shape, that is, all of them are inside a $\{\sp\{\sn\ ...\}\}$. These specifically can occur in the **\sp** to define a property that is a hyperlink. They are used in the following way:

```
{\hl {\hlloc RTF-string }{\hlsrc RTF-string}}
```

The three groups can be in any order and provide the three strings needed to fully describe a hyperlink. The control words are described in the following table.

Control word	Meaning
\hl	Destination for hyperlink attached to a shape.
\hlloc	Location string for hyperlink.
\hlsrc	Source string for hyperlink.
\hlfr	Display name for hyperlink.

Footnotes

The **\footnote** control word introduces a footnote. Footnotes are destinations in RTF. A footnote is anchored to the character that immediately precedes the footnote destination (that is, the footnote moves with the character to which it is anchored). If automatic footnote numbering is defined, the destination can be preceded by a footnote reference character, identified by the control word **\chftn**. Microsoft products do not support footnotes within headers, footers, or comments (annotations). Placing a footnote within headers, footers, or comments will often result in a corrupted document.

Footnotes have the following syntax:

```
<footnote> '{' \footnote \ftnalt? <para>+ '}'
```

Here is an example of a destination containing footnotes:

```
\ftnbj\ftnrestart \sectd \linemod0\linex0\endnhere \pard\plain \ri1170 \fs20 {\pu6 Mead's landmark study has been amply annotated.\chftn {\footnote \pard\plain \s246 \fs20 {\up6\chftn }See Sahlins, Bateson, and Geertz for a complete bibliography.}

It was her work in America during the Second World War, however, that forms the basis for the paper. As others have noted, \chftn
```

```
{\footnote \pard\plain \s246 \fs20 {\up6\chftn}
A complete bibliography will be found at the end of this chapter.}
this period was a turning point for Margaret Mead.}
\par
```

To indicate endnotes, the following combination is emitted: \footnote\ftnalt. Existing readers will ignore the \ftnalt control word and treat everything as a footnote.

For other control words relating to footnotes, see the sections titled <u>Document Formatting Properties</u>, <u>Section Formatting Properties</u>, and <u>Special Characters</u> in this specification.

Comments (Annotations)

RTF comments (annotations) have two parts; the author ID (introduced by the control word **\atnid**) and the comment text (introduced by the control word **\annotation**); there is no group enclosing both parts. Microsoft products do not support comments within headers, footers, or footnotes. Placing a comment within headers, footers, or footnotes may result in a corrupted document. Each part of the comment is an RTF destination. Comments are anchored to the character that immediately precedes the comment.

If an annotation is associated with an annotation bookmark, the following two destination control words precede and follow the bookmark. The alphanumeric string N, such as a long integer, represents the bookmark name.

```
<atrfstart> '{\*' \atrfstart N '}' <atrfend> '{\*' \atrfend N '}'
```

Comments have the following syntax:

```
<annotid> <atnauthor> <atntime>? \chatn <atnicn>? <annotdef>
<annot>
                   '{\*' \atnid #PCDATA '}'
<annotid>
                   '{\*' \atnauthor #PCDATA '}'
<atnauthor>
                   '{\*' \annotation <atndate>? <atnref> <atnparent> <para>+ '}'
<annotdef>
<atnref>
                   '{\*' \atnrefN '}'
<atntime>
                   '{\*' \atntime <time> '}'
<atndate>
                   '{\*' \atndate <date> '}'
<atnparent>
                   '{\*' \atnparent <annotid of parent> '}'
<atnicn>
                   '{\*' \atnicn <pict> '}'
```

The following is an example of annotation text:

```
{\insrsid8729657 An example of a paradigm might be Darwinian biology.}{\cs15\v\fs16\insrsid8729657 {\*\atnid JD}{\*\atnauthor John Doe}\chatn {\*\annotation{\*\atndate 1180187342}\pard\plain \s16\ql \li0\rio\widctlpar\aspalpha\aspnum\faauto\adjustright\rino\lino\itap0 \fs20\lang1033\langfe1033\cgrid\langnp1033\langfenp1033 {\cs15\fs16\insrsid8729657 \chatn }{\insrsid9244585 How about some examples that deal with social science? That is what this paper is about 1}
```

Comments may have optional time stamps (contained in the **\atntime** destination), date stamps (contained in the **\atntime** destination), or icons (contained in the **\atnicn** destination).

Fields

The **\field** control word introduces a field destination, which contains the text of fields. Fields have the following syntax:

<field></field>	'{' \field <fieldmod>? <fieldinst> <fieldrslt> '}'</fieldrslt></fieldinst></fieldmod>
<fieldmod></fieldmod>	\flddirty? & \fldlock? & \fldpriv?
<fieldinst></fieldinst>	'{*' \fldinst <fieldtype><para>+ \fldalt? <datafield>? <formfield>? '}'</formfield></datafield></para></fieldtype>
<fieldrslt></fieldrslt>	'{' \fldrslt <para>+ '}'</para>
<datafield></datafield>	'{' *\datafield #SDATA '}'
<fieldtype></fieldtype>	<datetime> <docauto> <docinfo> <form> <formulas> <indextables> <mailmerge> <numbering> <userinfo></userinfo></numbering></mailmerge></indextables></formulas></form></docinfo></docauto></datetime>
<datetime></datetime>	'CREATEDATE' 'DATE' 'EDITTIME' 'PRINTDATE' 'SAVEDATE' 'TIME'
<docauto></docauto>	'COMPARE' 'DOCVARIABLE' 'GOTOBUTTON' 'IF' 'MACROBUTTON' 'PRINT'
<docinfo></docinfo>	'AUTHOR' 'COMMENTS' 'DOCPROPERTY' 'FILENAME' 'FILESIZE' 'INFO' 'KEYWORDS' 'LASTSAVEDBY' 'NUMCHARS' 'NUMPAGES' 'NUMWORDS' 'SUBJECT' 'TEMPLATE' 'TITLE'
<form></form>	'FORMTEXT' 'FORMCHECKBOX' 'FORMDROPDOWN'
<formulas></formulas>	('=' <formula>) 'ADVANCE' 'EQ' 'SYMBOL'</formula>
<indextables></indextables>	'INDEX' 'RD' 'TA' 'TC' 'TOA' 'TOC' 'XE'
	'AUTOTEXT' 'AUTOTEXTLIST' 'HYPERLINK' 'INCLUDEPICTURE' 'INCLUDETEXT' 'LINK' 'NOTEREF' 'PAGEREF' 'QUOTE' 'REF' 'STYLEREF'
<mailmerge></mailmerge>	'ADDRESSBLOCK' 'ASK' 'COMPARE' 'DATABASE' 'FILLIN' 'GREETINGLINE' 'IF' 'MERGEFIELD' 'MERGEREC' 'MERGESEQ' 'NEXT' 'NEXTIF' 'SET' 'SKIPIF'
<numbering></numbering>	'AUTONUM' 'AUTONUMLGL' 'AUTONUMOUT' 'BARCODE' 'LISTNUM' 'PAGE' 'REVNUM' 'SECTION' 'SECTIONPAGES' 'SEQ'
<userinfo></userinfo>	'USERADDRESS' 'USERINITIALS' 'USERNAME'
<formula></formula>	See Office Open XML, Section 2.15.3.

For detailed discussion of the <para>+ content in <fieldinst>, please see Office Open XML, Section 2.15. There are several control words that alter the interpretation of the field. These control words are listed in the following table.

Control word	Meaning
\field	Destination for a field.
\flddirty	A formatting change has been made to the field result since the field was last updated.
\fldedit	Text has been added to, or removed from, the field result since the field was last updated.
\fldlock	Field is locked and cannot be updated.
\fldpriv	Result is not in a form suitable for display (for example, binary data used by fields whose result is a picture).

Two sub destinations are required within the **\field** destination. They must be enclosed in braces ($\{$ $\}$) and begin with the following control words.

Control word	Meaning
*\fldinst	Field instructions. This is a destination control word.
\fldrslt	Most recent calculated result of the field. This is a destination control word.

If the instruction for a field contains a file name, then the \cpgN control can be used to define the character set of the file name. See Code Page Support in this specification for details.

The **\fldrsIt** control word should be included even if a result was not calculated because most readers (even those readers that do not recognize fields) can generally include the value of the **\fldrsIt** destination in the document. A field result should not start with a table, because it may break some RTF readers.

The following is an example of some field text:

You can use the **\fldalt** control word to specify that the given field reference is to an endnote. For example, the following field in RTF is a reference to a footnote

```
{\field{\*\fldinst NOTEREF RefNumber }{\fldrslt 1}}
```

The following is an example of a reference to an endnote

```
{\field{\*\fldinst NOTEREF RefNumber \fldalt}{\fldrslt I}}
```

If the specified field is a form field, the ***\datafield** destination appears as a part of <fieldinst> and contains the binary data of a form field instruction. For example:

Note the **\datafield** destination requires the ***** prefix. The **\fldtype**, **\date**, **\time**, and **\wpeqn** field keywords should be ignored.

An example of the AUTONUM field for ①. is

```
{\field{\*\fidinst AUTONUM \\* CircleNum}{\fidrslt \f31505 \u9312\'3f\f31506 .}}
```

An example of a HYPERLINK field is

```
{\field{\*\fidinst HYPERLINK "http://www.microsoft.com"}{\fidrslt Microsoft}}
```

This displays as Microsoft without any coloring since none is specified in the "friendly name" result portion of the field (in the {\fldrslt ...}). But you can click on it to go to Microsoft's web site. More detailed discussion of the HYPERLINK field is given in Office Open XML, Section 2.15.5.26.

EQ field and East Asian Formatting

The EQ field is explained in Office Open XML, 2.15.5.20. For the most part, this field is seldom used, since the Equation Editor and Word 2007 math editing and display facilities are far superior. But it's still used for three East Asian formatting constructs: phonetic guide, enclose, and combine. The two other East Asian formatting constructs that Word supports, \text{twoinoneN} (sometimes called Warichu) and \horzvertN (sometimes called tatenakayoko) have their own RTF and underlying implementations.

This subsection discusses how the phonetic-guide, enclose and combine constructs are created using the Word EQ field using the EQ function o(<this>,<that>), which displays <this> over

<that>. The major difference between the three constructs is the displacement of the <this> relative to the <that>.

Consider first the phonetic guide, which is often call ruby. This displays a ruby-text annotation (<ruby>) in a smaller type size above, below, or to the side of a base text (<base>). The ruby text is used to clarify the base text in some way, typically how the base text is pronounced. When Japanese text is displayed from left to right (instead of vertically), the ruby text is displayed above or below the base text. The ruby text can have various justifications.

For example, the ruby construct 「日本語 displays the Japanese for the term "Japanese language", 日本語, together with the Hiragana ruby text にほんご, which is how to pronounce "Japanese language" in Japanese.

To display this construct with the EQ field, add the field switches and EQ functions

* jcN * "Font:MS Mincho" * hpsN \o\ad(\s\upN(<ruby>),<base>)

Here the N of the jcN switch specifies the kind of ruby justification as defined in the table

N	Meaning
0	Center <ruby> with respect to <base/></ruby>
1	Distribute difference in space between longer and shorter text in the latter, evenly between each character
2	Distribute difference in space between longer and shorter text in the latter using a ratio of 1:2:1 which corresponds to lead : intercharacter : end
3	Align <ruby> with the left of <base/></ruby>
4	Align <ruby> with the right of <base/></ruby>
5	Display <ruby> vertically to the right of <base/>, regardless of the <base/> alignment</ruby>

The * "Font:..." specifies the font and the * hpsN specifies the number of half points to use for the ruby text size. The \ad switch for the \o function says to use the distributed justification defined by the jcN entry. The \s\upN(...) is the EQ shift function that shifts its argument up if the \upN switch is used and down if the \doN switch is used. To display <ruby> above <base>, use \upN and to display <ruby> below <base>, use \doN. Here N is the number of points to shift. Note that (half) points don't scale with the text size, so the parameters have to be recalculated if a change in text size is desired.

For the combine formatting construct, the characters to be combined are split into two groups, <above> and <below>. The corresponding Word EQ field contains something like

$$o(\s\p)/\c<\p)/\c<\p>), \s\do2(\c<\p))$$

where the font size is chosen to be 6 pts (\fs12). This construct displays <above> over <below>, sort of the way ruby displays <ruby> over <base>, but for the combine construct <above> isn't shifted up so far and <below> is shifted down a bit. As for the ruby construct, since the shifts are in points, the combine structure doesn't scale with text size correctly. For example, combining abcd, we get $^{ab}_{rcd}$, which has the EQ field "eq \o(\s\up 5(ab),\s\do 2(cd))".

For the enclose construct that looks like Q, the EQ field can contain

 $\o(\uc0\u9675,Q)$

where $9675_{10} = 25CB_{16}$, i.e., a white circle. Here \ac switch means center align one argument over the other (note that there's no \s() object and hence no vertical shift) and we include \uc0 to get rid of the multibyte translation that would otherwise follow \u9675.

When encoding these EQ fields in RTF, one has to duplicate every backslash, so that the backslash is taken literally instead of the start of a control word. For example, the "enclose" EQ field above could be represented by the RTF

```
{\left(\frac{*field(*fidinst EQ \o(\fis24\uc0\u9675,\fis16 Q)}{fidrslt}}\right)}
```

This structure also doesn't scale with font size, since the white circle and the Q must have appropriate relative font sizes.

Note: Word's RTF for EQ fields always has a null field result (empty \fidrsit), so if a reader of the RTF doesn't understand the EQ \fidrsit, it displays nothing for the field.

Form Fields

Form fields occur inside the field **\fldinst** group and describe the properties of form controls. They have the syntax

<formfield></formfield>	'{*' \formfield '{' <formparams> <formstrings> '}}'</formstrings></formparams>
<formparams></formparams>	\fftypeN? \ffownhelpN? \ffownstatN? \ffprotN? \ffsizeN? \fftypetxtN? \ffrecalcN? \ffhaslistboxN? \ffhaslistbox
<formstrings></formstrings>	<ffname>? <ffdeftext>? <ffformat>? <ffhelptext>? <ffstattext>? <ffentrymcr>? <ffexitmcr>? <ffl>*</ffl></ffexitmcr></ffentrymcr></ffstattext></ffhelptext></ffformat></ffdeftext></ffname>
<ffl></ffl>	'{*' \ffI #PCDATA '}'
<ffname></ffname>	'{' \ffname #PCDATA '}'
<ffdeftext></ffdeftext>	'{' \ffdeftext #PCDATA '}'
<ffformat></ffformat>	'{' \ffformat #PCDATA '}'
<ffhelptext></ffhelptext>	'{' \ffhelptext #PCDATA '}'
<ffstattext></ffstattext>	'{' \ffstattext #PCDATA '}'
<ffentrymcr></ffentrymcr>	'{' \ffentrymcr #PCDATA '}'
<ffexitmcr></ffexitmcr>	'{' \ffexitmcr #PCDATA '}'

Control word	Meaning
*\formfield	Group destination keyword indicating start of form field data.
\fftype/V	Form field type:
	0 Text
	1 Check box
	2 List
\ffownhelp <i>N</i>	1 if there is associated Help text (defined under \ffhelptext), 0 otherwise.
\ffownstat/V	1 if there is associated status line text (defined under \ffstattext), 0 otherwise.
\ffprot <i>N</i>	1 if this field is protected, 0 otherwise.
\ffsize <i>N</i>	Type of size selected for check box field:
	0 Auto
	1 Exact

Meaning
Type of text field:
0 Regular text
1 Number
2 Date
3 Current date
4 Current time
5 Calculation
1 if the field should be calculated on exit, 0 otherwise.
1 if this field has list box attached to it, 0 otherwise.
Number of characters for text field.
Check box size (half-point sizes).
Default item for list field (for example $0 = $ first list item, $1 = $ second list item).
Result item for list field. Values from 0 to n - 1, where n is the number of <ffl> entries.</ffl>
Text of an item in a drop down list. This is a destination control word.
Form field name (string). This is a destination control word.
Default text for text field (string). This is a destination control word.
Format for text field (string). This is a destination control word.
Help text (string). This is a destination control word.
Status line text (string). This is a destination control word.
Macro to execute upon entry into this form field (string). This is a destination control word.
Macro to execute upon exit from this form field (string). This is a destination control word.

Index Entries

The **\xe** control word introduces an index entry. Index entries in RTF are destinations. An index entry has the following syntax:

```
<idx> '{' \xe (\xefN? & \bxe? & \ixe?) < entry> (<txe> | <rxe>)? '}'
<entry> (<char> + <yxe>?) | ('{' <char> + <yxe>? '}')
<yxe> \yxe <char> + #PCDATA
<txe> '{' \txe <char> + #PCDATA '}'
<rxe> '{' \rxe #PCDATA '}'
<pxe> '\*' \pxe <char> + #PCDATA
```

If the text of the index entry is not formatted as hidden text with the \v control word, then the text is put into the document as well as into the index. Similarly, the text of the \t sub destination, described later in this section, becomes part of the document if it is not formatted as hidden text. For more information on the \t control word, see \t Font/Character Formatting Properties in this specification.

The following control words may also be used.

Control word	Meaning
\xef/V	Allows multiple indexes within the same document. $\it N$ is an integer that corresponds to the ASCII value of a letter between A and Z.
\bxe	Formats page number or cross-reference in bold.
\ixe	Formats page number or cross-reference in italic.
\txe	Text argument to be used instead of a page number. This is a destination control word.
\rxe	Text argument is a bookmark for the range of page numbers. This is a destination control word.
\yxe	Pronunciation (or heading) for index entry, used in phonetic sorting.
*\pxe	"Yomi" (pronunciation) for index entry.

Table of Contents Entries

The **\tc** control word introduces a table of contents entry, which can be used to build the actual table of contents. The **\tcn** control word marks a table of contents entry that will not have a page number associated with it; this is used in place of **\tc** for such entries. Table of contents entries are destinations, and they have the following syntax:

As with index entries, text that is not formatted as hidden with the \v character-formatting control word is put into the document. The following control words can also be used in this destination.

Control word	Meaning
\tcf/V	Type of table being compiled. N is mapped by existing Microsoft software to a letter between A and Z (default is 67, which maps to C, used for tables of contents).
\tclN	Level number (default is 1).

Bidirectional Language Support

RTF supports bidirectional writing orders for languages such as Arabic. The controls are described in the following table (as well as in the appropriate sections throughout this specification). Also refer to the associated character properties defined in Associated Character Properties in this specification.

All the control words relating to bidirectional language support are repeated here for convenience.

Control word	Meaning
\rtlch	The character data following this control word will be treated as a right-to-left run.
\ltrch	The character data following this control word will be treated as a left-to-right run (the default).
\lin/V	Left indent for left-to-right paragraphs; right indent for right-to-left paragraphs (default is 0).
\rin/V	Right indent for left-to-right paragraphs; left indent for right-to-left paragraphs (default is 0).
\pgnbidia	Page-number format is Abjad Jawaz if language is Arabic and Biblical Standard if language is Hebrew.
\pgnbidib	Page number format is Alif Ba Tah if language is Arabic and Non-standard Decimal if language is Hebrew.
\rtlmark	The following characters should be displayed from right to left.
\ltrmark	The following characters should be displayed from left to right.
\rtlpar	Text in this paragraph will be displayed with right-to-left precedence.

Control word	Meaning		
\ltrpar	Text in this paragraph will be displayed with left-to-right precedence (the default).		
\rtlrow	Cells in this table row will have right-to-left precedence.		
\ltrrow	Cells in this table row will have left-to-right precedence (the default).		
\rtlsect	This section will thread columns from right to left.		
\ltrsect	This section will thread columns from left to right (the default).		
\rtldoc	Text in this document will be displayed from right to left unless overridden by a more specific control.		
\ltrdoc	Text in this document will be displayed from left to right unless overridden by a more specific control (the default).		
\leveInfcn/V	Same values as \leveInfcN . Takes priority over it if both are present (see definition in <u>List Table</u>).		
\leveljcn/V	0 Left justified for left-to-right paragraphs and right justified for right-to-left paragraphs		
	1 Center justified		
	2 Right justified for left-to-right paragraphs and left justified for right-to-left paragraphs		
	Takes priority over \leveljcN if both are present.		
\rtlgutter	Gutter is positioned on the right.		
\taprtl	Indicates that the table direction is right-to-left.		
\zwj	Zero-width joiner. This is used for ligating characters.		
\zwnj	Zero-width nonjoiner. This is used for unligating characters.		

East Asian Support

Word 2000 and subsequent releases provide full support for all East Asian features introduced in all previous Asian versions of Word and they have the ability to read and write RTF keywords related to such features. This section provides details on the handling of East Asian characters. For more information on handling East Asian features, see the appropriate subsection in the Contents of an RTF File section in this document. See also EQ field and East Asian Formatting.

Escaped Expressions

An escaped expression (for example, $\$ or $\$) is usable in all RTF control words.

In general RTF should be written out with all characters above 0x7F in the escaped form, \'hh
or the \uN form if an ANSI version doesn't exist. The following table shows values for character
codes.

Character code	Write out as
0x00 <= ch < 0x20	Escaped (\'hh)
$0x20 \le ch < 0x80$	Raw (non-escaped) character
0x80 <= ch <= 0xFF	Escaped (\'hh)
0x5C, 0x7B, 0x7D (special RTF characters {, })	Escaped (\'hh)

When an RTF reader encounters raw characters in the leading-byte range of the double-byte character, it regards the next character as the trailing byte of the double-byte character and combines the two characters into one double-byte character. The following table shows possible byte combinations.

Leading byte	Trailing byte	Validity
Escaped	Raw (0x20 \leq ch \leq 0x7f)	Valid (standard format for double-byte character)
Escaped	Escaped (other)	Valid (standard format for double-byte character)
Raw	Raw	Valid (RTF-J format for double-byte character)
Raw	Escaped	Invalid

Note: Characters that are special RTF symbols (\, $\{$, or $\}$) should always be escaped, preferably using the \'hh syntax, since some readers may have trouble with \\, \ $\{$, or \ $\}$.

Character Set and Mapping

Word specifies the character set in the font table using **\fcharsetN**. Word interprets **\cpg437** as **\fcharset0** and **\cpg932** as **\fcharset128** if it encounters these control words when reading RTF.

Word maps single-byte characters according to character set information (for example, Macintosh to ANSI) and leaves double-byte characters unmapped.

Font Family

RTF control words	Definition and interpretation in Word
\jis	RTF uses \jis as a control word for character set. Word interprets this as \ansi , which is the default character set used if the character set is not defined.
\fjminchou and \fjgothic	RTF uses \fiminchou and \figothic to specify font family. Word interprets these as \fnil, which is the default font family.

ShiftJIS Font Without \cpgN or \fcharsetN

If \cpgN or \fcharsetN control words are not present, Word uses the text metrics of the font to determine the character set of these fonts.

Composite Fonts (Associated Fonts for International Runs)

Word defines control words to specify composite fonts as associated character properties. These control words follow the rule of associated character properties and understand font designation (\afN). All other <aprops> are ignored in Word. In an East Asian context (see Associated Character Properties for the general case) composite fonts have the following syntax:

<atext></atext>	<losbrun> <hisbrun> <dbrun></dbrun></hisbrun></losbrun>
<losbrun></losbrun>	\hich \afN & <aprops> \dbch \afN & <aprops> \loch <ptext></ptext></aprops></aprops>
<hisbrun></hisbrun>	\loch \afN & <aprops> \dbch \afN & <aprops> \hich <ptext></ptext></aprops></aprops>
<dbrun></dbrun>	\loch \afN & <aprops> \hich \afN & <aprops> \dbch <ptext></ptext></aprops></aprops>

These control words are described in the following table.

Control word	Meaning
\loch	Specifies a run of the characters in the low-ANSI (0x00-0x7F) area.
\hich	For the characters in the high-ANSI (0x800xFF) area.
\dbch	Specifies a run of the double-byte characters.

Word writes out associated character properties in the styles. In the style sheet, the <dbrun> definition should be used for compatibility with applications that have transparent readers.

```
{\stylesheet{\loch\af5\hich\af5\dbch\f27\fs20\snext0 Normal;}}
```

If the composite font definition matches the style, only the control word (\loch, \hich, or \dbch) is used to distinguish the type of run, along with the font information for transparent readers.

```
{\fonttbl{\f5\fswiss\fcharset0\fprq2 Arial;}{\f27\froman\fcharset128\fprq1 Mincho;}}

{\stylesheet{\loch\af5\hich\af5\dbch\f27\fs20\snext0 Normal;}}

\pard\plain

{\dbch\f27\fs20 \'82\'b1\'82\'cd}

{\loch\f5 Test }

{\dbch\f27\'82\'c5\'82\'b7\'81B}
```

If one or all of **\loch**, **\hich**, and **\dbch** are missing from the style sheet definition (or the character set does not match), Word applies the following fonts to each character run in the style using the bulleted rules in the next paragraph.

Control word	Font Word J applies
\loch	Same font as \fN.
\hich	Any font whose character set is ANSI_CHARSET.
\dbch	Any font whose character set is SHIFTJIS_CHARSET.

If the composite font control words are missing from the character run, Word will interpret all characters below 0x80 as a **\loch** run. Characters above or equal to 0x80 are determined using the following rules:

• If the character is in the leading-byte range and the next character is in the trailing-byte range of a double-byte character, it is treated as a **\dbch** run (one double-byte character). For example,

• If the character is in the leading-byte range of a double-byte character but the next character is not in the trailing-byte range, it is treated as a **\hich** run (two high-ANSI or low-ANSI characters). For example,

$$\verb''99''FF \rightarrow \ddot{y}$$

• If the character is in the leading-byte range of a double-byte character and is the last character in the run, it is treated as a **\hich** run (one high-ANSI character). For example,

```
\'99\par \rightarrow
```

• If the character is not in the leading-byte range of a double-byte character, it is treated as a **\hich** run (one high-ANSI character). For example,

East Asian Control Words Created by Word 6J

These control words have been integrated into the appropriate main tables earlier in this document.

Contro	Mea	

Associated Character Properties		
\loch	The text consists of single-byte low-ANSI (0x00-0x7F) characters.	
\hich	The text consists of single-byte high-ANSI (0x80-0xFF) characters.	
\dbch	The text consists of double-byte characters.	

Character Properties

\uldash Dashed underline.
\uldashd Dash-dotted underline.
\uldashdd Dash-dot-dotted underline.

\ulhair Hairline underline.
\ulth Thick underline.
\ulwave Wave underline.

\accnone No accent characters (over dot / over comma).

\accdot Over dot accent.
\acccomma Over comma accent.
\charscalex Character width scaling.

\striked1 Double strikethrough. \striked0 turns it off.

Document Formatting Properties

\horzdoc Horizontal rendering. \vertdoc Vertical rendering.

*\fchars List of following Kinsoku characters.
*\lchars List of leading Kinsoku characters.
\jcompress Compressing justification (default).

\jexpand Expanding justification.

\gutterprl Parallel gutter.

\dgsnap Snap to drawing grid.

\dghspaceN Drawing grid horizontal spacing in twips (default is 120).
\dgvspaceN Drawing grid vertical spacing in twips (default is 120).
\dghoriginN Drawing grid horizontal origin in twips (default is 1,701).
\dgvoriginN Drawing grid vertical origin in twips (default is 1,984).
\dghshowN Show Nth horizontal drawing gridline (default is 3).
\dgvshowN Show Nth vertical drawing gridline (default is 0).
\twoonone Print two logical pages on one physical page.

\Inongrid Define line based on the grid.

Bullets and Numbering

\pndecd Double-byte decimal numbering (Arabic DBCHAR).
\pndbnum Kanji numbering without the digit character (DBNUM1).
\pnaiu 46 phonetic katakana characters in "aiueo" order (AIUEO).
\pnaiud 46 phonetic double-byte katakana characters (AIUEO DBCHAR).

Control word	Meaning
\pniroha	46 phonetic katakana characters in "iroha" order (iroha).
\pnirohad	46 phonetic double-byte katakana characters (iroha DBCHAR).
\pncnum	20 numbered list in circle (CIRCLENUM).
\pnuldash	Dashed underline.
\pnuldashd	Dash-dotted underline.
\pnuldashdd	Dash-dot-dotted underline.
\pnulhair	Hairline underline.
\pnulth	Thick underline.
\pnulwave	Wave underline.
Drawing Object	rts
\dptxlrtb	Text box flows from left to right and top to bottom (default).
\dptxtbrl	Text box flows from right to left and top to bottom.
\dptxbtlr	Text box flows from left to right and bottom to top.
\dptxlrtbv	Text box flows from left to right and top to bottom, vertically.
\dptxtbrlv	Text box flows from top to bottom and right to left, vertically.
Frame Propert	ies
\frmtxlrtb	Frame box flows from left to right and top to bottom (default).
\frmtxtbrl	Frame box flows right to left and top to bottom.
\frmtxbtlr	Frame box flows left to right and bottom to top.
\frmtxlrtbv	Frame box flows left to right and top to bottom, vertical.
\frmtxtbrlv	Frame box flows top to bottom and right to left, vertical.
Index Entries	
*\pxe	"Yomi" (pronunciation) for index entry.
Paragraph Pro	perties
\nocwrap	No character wrapping.
\nowwrap	No word wrapping.
\qd	Distributed.
\nooverflow	No overflow period and comma.
\aspalpha	Auto spacing between DBC and English.
\aspnum	Auto spacing between DBC and numbers.
\fahang	Font alignment – Hanging.
\facenter	Font alignment – Center.
\faroman	Font alignment – Roman (default).
\favar	Font alignment – Upholding variable.
\fafixed	Font alignment – Upholding fixed.
Section Forma	tting Properties
\horzsect	Horizontal rendering.
\vertsect	Vertical rendering.

Kanji numbering without the digit character.

Double-byte decimal numbering.

\pgndecd

 \polinimes

Control word	Meaning
\pgndbnumd	Kanji numbering with the digit character.
Special Charac	ters
\zwbo	Zero-width break opportunity. Used to insert break opportunity between two characters.
\zwnbo	Zero-width nonbreak opportunity. Used to remove break opportunity between two characters.
\qmspace	One-quarter em space.
Table Formatti	ng
\cldglu	Diagonal line (upper left to lower right). Followed by brdr>, which defines the properties of the diagonal border (\classed classes).
\cldgll	Diagonal line (upper right to lower left). Followed by brdr>, which defines the properties of the diagonal border (\close classification of the diagonal border).
\cltxlrtb	Text in a cell flows from left to right and top to bottom (default).
\cltxtbrl	Text in a cell flows right to left and top to bottom.
\cltxbtlr	Text in a cell flows left to right and bottom to top.
\cltxlrtbv	Text in a cell flows left to right and top to bottom, vertical.
\cltxtbrlv	Text in a cell flows top to bottom and right to left, vertical.
\clvmgf	The first cell in a range of table cells to be vertically merged.
\clvmrg	Contents of the table cell are vertically merged with those of the preceding cell.
\clvertalt	Cell top align.
\clvertalc	Cell vertically center align.
\clvertalb	Cell bottom align.
Tabs	

East Asian Control Words

Control word	Meaning		
Character Formatting Properties			
\caridN	Character grid.		

\cgrid/V Character grid.

\g Destination related to character grids (not emitted by Word).

\gcwN Grid column width.

\gridtbl Destination keyword related to character grids (not emitted by Word).

\nosectexpand Disable character space basement.

Leader middle dots.

Paragraph Formatting Properties

\adjustright Automatically adjust right indent when document grid is defined.

\nosnaplinegrid Disable snap line to grid.

\faauto Font alignment the default setting for this is "Auto."

Borders

\tlmdot

\brdrframe Border resembles a frame.

Bullets and Numbers

\pnaiueo 46 phonetic katakana characters in "aiueo" order (AIUEO).
\pnaiueod 46 phonetic double-byte katakana characters (AIUEO DBCHAR).

\pndbnumd Kanji numbering with the digit character (DBNUM2).

Control word	Meaning	
\pndbnumt	Kanji numbering 3 (DBNUM3).	
\pndbnuml	Kanji numbering 3 (DBNUM3).	
\pndbnumk	Kanji numbering 4 (DBNUM4).	
\pnganada	Korean numbering 2 (GANADA).	
\pngbnum	Chinese numbering 1 (GB1).	
\pngbnumd	Chinese numbering 2 (GB2).	
\pngbnuml	Chinese numbering 3 (GB3).	
\pngbnumk	Chinese numbering 4 (GB4).	
\pnzodiac	Chinese Zodiac numbering 1 (ZODIAC1).	
\pnzodiacd	Chinese Zodiac numbering 2 (ZODIAC2).	
\pnzodiacl	Chinese Zodiac numbering 3 (ZODIAC3).	
\pnchosung	Korean numbering 1 (CHOSUNG).	
Endnotes and Footnotes		
\ftnnchosung	Footnote Korean numbering 1 (CHOSUNG).	
\ftnncnum	Footnote Circle numbering (CIRCLENUM).	
\ftnndbnum	Footnote kanji numbering without the digit character (DBNUM1).	
\ftnndbnumd	Footnote kanji numbering with the digit character (DBNUM2).	
\ftnndbnumt	Footnote kanji numbering 3 (DBNUM3).	
\ftnndbnumk	Footnote kanji numbering 4 (DBNUM4).	
\ftnndbar	Footnote double-byte numbering (DBCHAR).	
\ftnnganada	Footnote Korean numbering 2 (GANADA).	
\ftnngbnum	Footnote Chinese numbering 1 (GB1).	
\ftnngbnumd	Footnote Chinese numbering 2 (GB2).	
\ftnngbnuml	Footnote Chinese numbering 3 (GB3).	
\ftnngbnumk	Footnote Chinese numbering 4 (GB4).	
\ftnnzodiac	Footnote numbering—Chinese Zodiac numbering 1 (ZODIAC1) 甲・乙・丙…	
\ftnnzodiacd	Footnote numbering—Chinese Zodiac numbering 2 (ZODIAC2) 子、丑、寅…	
\ftnnzodiacl	Footnote numbering—Chinese Zodiac numbering 3 (ZODIAC3).	
\aftnnchosung	Endnote Korean numbering 1 (CHOSUNG).	
\aftnncnum	Endnote Circle numbering (CIRCLENUM).	
\aftnndbnum	Endnote kanji numbering without the digit character (DBNUM1).	
\aftnndbnumd	Endnote kanji numbering with the digit character (DBNUM2).	
\aftnndbnumt	Endnote kanji numbering 3 (DBNUM3).	
\aftnndbnumk	Endnote kanji numbering 4 (DBNUM4).	
\aftnndbar	Endnote double-byte numbering (DBCHAR).	
\aftnnganada	Endnote Korean numbering 2 (GANADA).	
\aftnngbnum	Endnote Chinese numbering 1 (GB1).	
\aftnngbnumd	Endnote Chinese numbering 2 (GB2).	
\aftnngbnuml	Endnote Chinese numbering 3 (GB3).	

Endnote numbering—Chinese Zodiac numbering 1 (ZODIAC1) 甲・乙・丙…

Endnote Chinese numbering 4 (GB4).

\aftnngbnumk

\aftnnzodiac

\aftnnzodiacd Endnote numbering—Chinese Zodiac numbering 2 (ZODIAC2) 子、丑、寅…

\aftnnzodiacl Endnote numbering—Chinese Zodiac numbering 3 (ZODIAC3).

Section Formatting Properties

Korean numbering 1 (CHOSUNG). \pgnchosung \pgncnum Circle numbering (CIRCLENUM). \pgndbnumt Kanji numbering 3 (DBNUM3). \pgndbnumk Kanji numbering 4 (DBNUM4). \pgnganada Korean numbering 2 (GANADA). \pgngbnum Chinese numbering 1 (GB1). \pgngbnumd Chinese numbering 2 (GB2). \pgngbnuml Chinese numbering 3 (GB3). \pgngbnumk Chinese numbering 4 (GB4).

\pgnzodiac Chinese Zodiac numbering 1 (ZODIAC1).
\pgnzodiacd Chinese Zodiac numbering 2 (ZODIAC2).
\pgnzodiacl Chinese Zodiac numbering 3 (ZODIAC3).

\sectexpandN Character space basement (character pitch minus font size) **N** in device independent units (a

device independent unit is 1/294912th of an inch).

\sectlinegridN Line grid, where N is the line pitch in 20ths of a point (twips).

\sectdefaultcl Default state of section. Indicates \sectspecifyel and \sectspecifyel are not emitted.

\sectspecifycl Specify number of characters per line only.

\sectspecifyl Specify both number of characters per line and number of lines per page.

Document Formatting Properties

\dgmargin Grid to follow margins.

Index Entries

\yxe Pronunciation (or heading) for index entry, used in phonetic sorting.

East Asian Control Words Created by Word 2000

Control word	Meaning
Document Format	tting Properties
\jsksu	Indicates that the strict Kinsoku set must be used for Japanese; $\$ is present if $\$ is present and the language N is Japanese.
\ksulang <i>N</i>	Indicates what language $\it N$ the customized Kinsoku characters defined in the \fchars and \lchars destinations belong to.
Section Formattin	ng Properties
\sectspecifygenN	Indicates that text should snap to the character grid. Note that the N is part of the keyword.
Paragraph Forma	tting Properties
\cufi/V	First-line indent in hundredths of a character unit; overrides \fine{N} , although they should both be emitted with equivalent values.
\culi/V	Left indent (space before) in character units. Behaves like \lin\(\lin\(\) and overrides \lin\(\) and \lin\(\), although they should all be emitted with equivalent values.
\curi <i>N</i>	Right indent (space after) in character units. Behaves like \rinN and overrides \rinN and \rinN, although they should all be emitted with equivalent values.

Control word	Meaning
\lisb <i>N</i>	Space before in hundredths of a character unit. Overrides \sbN although they should both be emitted with equivalent values.
\lisa <i>N</i>	Space after in hundredths of a character unit. Overrides $\$ although they should both be emitted with equivalent values.
Character Forma	atting Properties
\horzvertN	Text in the group flows in a direction opposite to that of the main document (Horizontal in vertical and vertical in horizontal):
	O Switched text is uncompressed.
	1 Switched text is compressed to current line height.
\twoinone/V	Text in the group is displayed as two half-height lines within a line:
	0 Text is not enclosed.
	1 Text is enclosed in parentheses.
	2 Text is enclosed in square brackets ([]).
	3 Text is enclosed in angled brackets (<>).
	4 Text is enclosed in braces ({}).
\fittext/V	Fit the text in the current group in N twips. When N is set to -1 (\fittext-1) it indicates a continuation of the previous \fittext N run. In other words {\fittext1000 Fit this} {\fittext-1 text} fits the string "Fit this text" in 1,000 twips.

Appendix A: Sample RTF Reader Application

This appendix gives the source code for a sample RTF reader program.

Note The sample RTF reader is not a for-sale product, and Microsoft does not provide technical or any other type of support for the sample RTF reader code or the RTF specification.

How to Write an RTF Reader

There are three basic things that an RTF reader must do:

Separate text from RTF controls.

Parse an RTF control.

Dispatch an RTF control.

Separating text from RTF controls is relatively simple, because all RTF controls begin with a backslash. Therefore, any incoming character that is not a backslash is text and will be handled as text.

Parsing an RTF control is also relatively simple. An RTF control is either (a) a sequence of alphabetical characters followed by an optional numeric parameter, or (b) a single non-alphanumeric character.

Dispatching an RTF control, on the other hand, is relatively complicated. A recursive-descent parser tends to be overly strict because RTF is intentionally vague about the order of various properties relative to one another. However, whatever method you use to dispatch an RTF control, your RTF reader should do the following:

Ignore control words you do not understand or do not want to implement.

Many RTF readers fail when they come across an unknown RTF control. Because Microsoft is

continually adding new RTF controls, this limits an RTF reader to working with the RTF from one particular product (usually some version of Word for Windows).

Always understand *

One of the most important things an RTF reader can do is to understand the * control. This control introduces a destination that is not part of the document. It tells the RTF reader that if the reader does not understand the next control word, then it should skip the entire enclosing group.

Remember that binary data can occur when you're skipping RTF.
 A simple way to skip a group in RTF is to keep a running count of the opening
 braces the RTF reader has encountered in the RTF stream. When the RTF reader
 sees an opening brace, it increments the count. When the reader sees a closing
 brace, it decrements the count. When the count becomes negative, the end of the
 group was found. Unfortunately, this does not work when the RTF file contains a
 \binN control; the reader must explicitly check each control word found to see if it
 is a \binN control, and if found, skip that many bytes before resuming its scanning
 for braces.

A Sample RTF Reader Implementation

This implementation uses a table-driven approach to reading RTF. The approach allows the most flexibility in reading RTF but makes it difficult to detect incorrect RTF. This reader works exactly as described in the RTF specification and uses the principles of operation described within the RTF specification. This reader is designed to be simple to understand but is not intended to be efficient or all inclusive. This RTF reader also implements the three design principles listed in the previous section.

The RTF reader consists of the following four files:

- rtfdecl.h, prototypes for all functions in the RTF reader
- rtftype.h, types used in the RTF reader
- rtfreadr.c, main program, the main loop of the RTF reader, and the RTF control parser
- rtfactn.c, dispatch routines for the RTF reader

rtfdecl.h

rtfdecl.h is straightforward and requires little explanation.

rtfreadr.c

Like rtfdecl.h, rtfreadr.c is also reasonably straightforward. The function **ecRtfParse** separates text from RTF controls and handles text, and the function **ecParseRtfKeyword** parses an RTF control and also collects any parameter that follows the RTF control.

rtftype.h

rtftype.h begins by declaring a sample set of character, paragraph, section, and document properties. These structures are present to demonstrate how the dispatch routines can modify any particular property and are not actually used to format text.

For example, the following enumeration describes the destination to which the text should be routed to:

```
typedef enum { rdsNorm, rdsSkip } RDS;
```

Because this is just a sample RTF reader, there are only two destinations. A more complicated reader would add an entry to this enumeration for each destination supported [for example, headers, footnotes, endnotes, comments (annotations), bookmarks, and pictures].

The following enumeration describes the internal state of the RTF parser:

```
typedef enum { risNorm, risBin, risHex } RIS;
```

This is entirely separate from the state of the dispatch routines and the destination state; other RTF readers may not necessarily have anything similar to this.

The following structure encapsulates the state that must be saved at a group start and restored at a group end:

```
typedef struct save
{
  struct save *pNext;
  CHP chp;
  PAP pap;
  SEP sep;
  DOP dop;
  RDS rds;
  RIS ris;
} SAVE;
```

The following enumeration describes a set of classes for RTF controls:

typedef enum {kwdChar, kwdDest, kwdProp, kwdSpec} KWD;

- Use kwdChar for controls that represent special characters (such as \-, \{, or \}).
- Use **kwdDest** for controls that introduce RTF destinations.
- Use **kwdProp** for controls that modify some sort of property.
- Use **kwdSpec** for controls that need to run some specialized code.

The following enumeration defines the number of PROP structures (described later) that will be used. There will typically be an **iprop** for every field in the character, paragraph, section, and document properties.

```
typedef enum {ipropBold, ipropItalic, ipropUnderline, ipropLeftInd,
ipropRightInd, ipropFirstInd, ipropCols, ipropPgnX, ipropPgnY,
ipropXaPage, ipropYaPage, ipropXaLeft, ipropXaRight,
ipropYaTop, ipropYaBottom, ipropPgnStart, ipropSbk,
ipropPgnFormat, ipropFacingp, ipropLandscape, ipropJust,
ipropPard, ipropPlain,
ipropPax} IPROP;
```

The following structure is a very compact way to describe how to locate the address of a particular value in one of the property structures:

```
typedef enum {actnSpec, actnByte, actnWord} ACTN;
typedef enum {propChp, propPap, propSep, propDop} PROPTYPE;
typedef struct propmod
{
    ACTN actn;
    PROPTYPE prop;
int offset;
} PROP;
```

The **actn** field describes the width of the value being described: if the value is a byte, then **actn** is **actnByte**; if the value is a word, then **actn** is **actnWord**; if the value is neither a byte nor a word, then you can use **actnSpec** to indicate that some C code needs to be run to set the value. The **prop** field indicates the property structure that is being described; **propChp** indicates that the value is located within the CHP structure; **propPap** indicates that the value is located within the PAP structure. Finally, the offset field contains the offset of the value from the start of the structure. The **offsetof()** macro is usually used to initialize this field.

The following structure describes how to parse a particular RTF control:

```
typedef enum {ipfnBin, ipfnHex, ipfnSkipDest } IPFN;
typedef enum {idestPict, idestSkip } IDEST;
typedef struct symbol
{
    char *szKeyword;
    int dflt;
    bool fPassDflt;
    KWD kwd;
    int idx;
} SYM:
```

szKeyword points to the RTF control being described; **kwd** describes the class of the particular RTF control (described earlier); **dflt** is the default value for this control, and **fPassDflt** should be nonzero if the value in **dflt** should be passed to the dispatch routine.

Note: fPassDflt is only nonzero for control words that normally set a particular value. For example, the various section break controls typically have nonzero **fPassDflt** controls, but controls that take parameters should not.

Idx is a generalized index; its use depends on the **kwd** being used for this control.

- If **kwd** is **kwdChar**, then **idx** is the character that should be output.
- If **kwd** is **kwdDest**, then **idx** is the **idest** for the new destination.
- If **kwd** is **kwdProp**, then **idx** is the **iprop** for the appropriate property.
- If **kwd** is **kwdSpec**, then **idx** is an **ipfn** for the appropriate function.

With this structure it is very simple to dispatch an RTF control word. Once the reader isolates the RTF control word and its (possibly associated) value, the reader then searches an array of

SYM structures to find the RTF control word. If the control word is not found, the RTF reader ignores it, unless the previous control was *, in which case the reader must scan past an entire group.

If the control word is found, the reader then uses the **kwd** value from the SYM structure to determine what to do. This is, in fact, exactly what the function **ecTranslateKeyword** in the file RTFACTN.C does.

rtfactn.c

Rtfactn.c contains the tables describing the properties and control words, and the routines to evaluate properties (**ecApplyPropChange**) and to dispatch control words (**ecTranslateKeyword**).

The tables are the keys to understanding the RTF dispatch routines. The following are some sample entries from both tables, along with a brief explanation of each entry.

Property Table

This table must have an entry for every **iprop.**

```
actnByte, propChp, offsetof(CHP, fBold), // ipropBold
```

This property says that the *ipropBold* property is a byte parameter bound to **chp.fBold**.

```
actnWord, propPap, offsetof(PAP, xaRight), // ipropRightInd
```

This property says that *ipropRightInd* is a word parameter bound to **pap.xaRight**.

```
actnWord, propSep, offsetof(SEP, cCols), // ipropCols
```

This property says that *ipropCols* is a word parameter bound to **sep.cCols**.

This property says that *ipropPlain* is a special parameter. Instead of directly evaluating it, **ecApplyPropChange** will run some custom C code to apply a property change.

Control Word Table

```
"b", 1, fFalse, kwdProp, ipropBold,
```

This structure says that the control **\b** sets the ipropBold property. Because **fPassDflt** is **False**, the RTF reader only uses the default value if the control does not have a parameter. If no parameter is provided, the RTF reader uses a value of 1.

```
"sbknone", sbkNon, fTrue, kwdProp, ipropSbk,
```

This entry says that the control **\sbknone** sets the **ipropSbk** property. Because **fPassDflt** is **True**, the RTF reader always uses the default value of **\sbknone**, even if the control has a parameter.

```
"par", 0, fFalse, kwdChar, 0x0a,
```

This entry says that the control \par is equivalent to a 0x0a (line feed) character.

```
"tab", 0, fFalse, kwdChar, 0x09,
```

This entry says that the control $\$ is equivalent to a 0x09 (tab) character.

```
"bin", 0, fFalse, kwdSpec, ipfnBin,
```

This entry says that the control **\bin** should run some C code. The particular piece of C code can be located by the **ipfnBin** parameter.

```
"fonttbl", 0, fFalse, kwdDest, idestSkip,
```

This entry says that the control \fonttbl should change to the destination idestSkip.

Notes on Implementing Other RTF Features

The table-driven approach to dispatching RTF controls used by the sample converter does not implement any syntax checking. For most controls this is not a problem; a control modifies the appropriate property. However, some controls, such as those for tabs and borders, are dependent on other control words either before or after the current control word.

There are some standard techniques for handling these features.

Tabs and Other Control Sequences Terminating in a Fixed Control

The best way to implement these types of control sequences is to have a global structure that represents the current state of the tab descriptor (or other entity). As the modifiers come in, they modify the various fields of the global structure. When the fixed control at the end of the sequence is dispatched, it adds the entire descriptor and reinitializes the global variable.

Borders and Other Control Sequences Beginning with a Fixed Control

The best way to implement these types of control sequences is to have a global pointer that is initialized when the fixed control is dispatched. The controls that modify the fixed control then modify fields pointed to by the global pointer.

Other Problem Areas in RTF

Style Sheets

Style sheets can be handled as destinations. However, styles have default values, just as every other control does. RTF readers should be sure to handle a missing style control as the default style value (that is, 0).

Property Changes

Some RTF readers use various bits of RTF syntax to mark property changes. In particular, they assume that property changes will occur only after a group start, which is not correct. Because there is a variety of ways to represent identical property changes in RTF, RTF readers should review the changes in the properties and not at any particular way of representing a property change. In particular, properties can be changed explicitly with a control word or implicitly at the end of a group. For example, these three sequences of RTF have exactly the same semantics, and should be translated identically:

```
{\b bold \i Bold Italic \i0 Bold again}
{\b bold {\i Bold Italic }Bold again}
{\b bold \i Bold Italic \plain\b Bold again}
```

Fields

All versions of Microsoft Word for Windows and version 6.0 and later of Microsoft Word for the Macintosh have fields. If you are writing an RTF reader and expect to do anything with fields, keep the following notes in mind:

• Field instructions may have arbitrary amounts of character formatting and arbitrarily nested groups. While the groups will be properly nested within the field instructions, you may already be inside an arbitrary number of groups by the time

- you know the field you are working with. If you then expect to be able to skip to the end of the field instructions, you'll have to know how many groups have started so that you can skip to the end properly.
- Some fields, the INCLUDE field in particular, can have section breaks in the field results. If this occurs, then the text after the end of the field does not have the same section properties as the text at the start of the field. Therefore, the section properties must not be restored when the field results contain section breaks.

Tables

Tables are probably the hardest part of RTF to read and write correctly. Because of the way Microsoft word processors implement tables, and the table-driven approach of many Microsoft RTF readers, it is very easy to write tables in RTF that are not compatible with Microsoft word processors when you try to read the RTF. Here are some guidelines to reduce problems with tables in RTF:

- Place the entire table definition before any paragraph properties, including \pard.
- Verify that the number of cells in the RTF matches the number of cell definitions.
- Some controls must be the same in all paragraphs in a row. In particular, all paragraphs in a row must have the same positioning controls, and all paragraphs in a row must have **\intbl** specified.
- Do not use the \sbys control inside a table. \sbys is a holdover from Word for MS-DOS and early versions of Word for the Macintosh. Word for Windows and current versions of Word for the Macintosh translate \sbys as a table.
- Cell definitions starting before the left margin of the paper begins (that is, the parameter plus the left margin is negative) are always in error.

Program Listings

rtfdecl.h

```
// RTF parser declarations
int ecRtfParse(FILE *fp);
int ecPushRtfState(void);
int ecPopRtfState(void);
int ecParseRtfKeyword(FILE *fp);
int ecParseChar(int c);
int ecTranslateKeyword(char *szKeyword, int param, bool fParam);
int ecPrintChar(int ch);
int ecEndGroupAction(RDS rds);
int ecApplyPropChange(IPROP iprop, int val);
int ecChangeDest(IDEST idest);
int ecParseSpecialKeyword(IPFN ipfn);
int ecParseSpecialProperty(IPROP iprop, int val);
int ecParseHexByte(void);
// RTF variable declarations
extern int cGroup;
```

```
extern RDS rds;
extern RIS ris;
extern CHP chp;
extern PAP pap;
extern SEP sep;
extern DOP dop;
extern SAVE *psave;
extern long cbBin;
extern long lParam;
extern bool fSkipDestIfUnk;
extern FILE *fpIn;
// RTF parser error codes
                               // Everything's fine!
#define ecOK 0
#define ecStackUnderflow 1
                               // Unmatched '}'
#define ecStackOverflow 2
                               // Too many '{' - memory exhausted
#define ecUnmatchedBrace 3
                               // RTF ended during an open group.
#define ecInvalidHex 4
                               // invalid hex character found in data
#define ecBadTable
                        5
                                // RTF table (sym or prop) not valid
#define ecAssertion
                               // Assertion failure
#define ecEndOfFile
                       7
                                // End of file reached while reading RTF
                               // Invalid keyword
#define ecInvalidKeyword 8
#define ecInvalidParam 9
                               // Invalid parameter
```

rtftype.h

```
typedef char bool;
#define fTrue 1
#define fFalse 0
typedef struct char_prop
   char fBold;
   char fUnderline;
   char fItalic;
} CHP;
                      // Character Properties
typedef enum {justL, justR, justC, justF } JUST;
typedef struct para prop
   int xaLeft;
                             // left indent in twips
   int xaRight;
                             // right indent in twips
   int xaFirst;
                             // first line indent in twips
   JUST just;
                              // justification
```

```
} PAP;
                      // Paragraph Properties
typedef enum {sbkNon, sbkCol, sbkEvn, sbkOdd, sbkPg} SBK;
typedef enum {pgDec, pgURom, pgLRom, pgULtr, pgLLtr} PGN;
typedef struct sect prop
{
   int cCols;
                             // number of columns
   SBK sbk;
                            // section break type
   int xaPgn;
                              // x position of page number in twips
   int yaPgn;
                             // y position of page number in twips
   PGN pgnFormat;
                              // how the page number is formatted
                     // Section Properties
typedef struct doc_prop
   int xaPage;
                            // page width in twips
   int yaPage;
                              // page height in twips
   int xaLeft;
                            // left margin in twips
                            // top margin in twips
   int yaTop;
   int xaRight;
                              // right margin in twips
   int yaBottom;
                            // bottom margin in twips
                            // starting page number in twips
   int pgnStart;
   char fFacingp;
                             // facing pages enabled?
   char fLandscape;
                            // landscape or portrait?
} DOP;
                     // Document Properties
typedef enum { rdsNorm, rdsSkip } RDS;
                                                // Rtf Destination State
                                                // Rtf Internal State
typedef enum { risNorm, risBin, risHex } RIS;
typedef struct save // property save structure
                           // next save
   struct save *pNext;
   CHP chp;
   PAP pap;
   SEP sep;
   DOP dop;
   RDS rds;
   RIS ris;
} SAVE;
// What types of properties are there?
typedef enum {ipropBold, ipropItalic, ipropUnderline, ipropLeftInd,
             ipropRightInd, ipropFirstInd, ipropCols, ipropPgnX,
             ipropPgnY, ipropXaPage, ipropYaPage, ipropXaLeft,
```

```
ipropXaRight, ipropYaTop, ipropYaBottom, ipropPgnStart,
             ipropSbk, ipropPgnFormat, ipropFacingp, ipropLandscape,
             ipropJust, ipropPard, ipropPlain, ipropSectd,
             ipropMax } IPROP;
typedef enum {actnSpec, actnByte, actnWord} ACTN;
typedef enum {propChp, propPap, propSep, propDop} PROPTYPE;
typedef struct propmod
   ACTN actn;
                          // size of value
                          // structure containing value
   PROPTYPE prop;
   int offset;
                          // offset of value from base of structure
} PROP;
typedef enum {ipfnBin, ipfnHex, ipfnSkipDest } IPFN;
typedef enum {idestPict, idestSkip } IDEST;
typedef enum {kwdChar, kwdDest, kwdProp, kwdSpec} KWD;
typedef struct symbol
   char *szKeyword;
                          // RTF keyword
                          // default value to use
   int dflt;
   bool fPassDflt;
                          // true to use default value from this table
   KWD kwd;
                           // base action to take
   int idx;
                           // index into property table if kwd == kwdProp
                           // index into destination table if kwd == kwdDest
                           // character to print if kwd == kwdChar
} SYM;
```

rtfreadr.c

```
#include <stdio.h>
#include <stdlib.h>
#include <ctype.h>
#include "rtftype.h"
#include "rtfdecl.h"

int cGroup;
bool fSkipDestIfUnk;
long cbBin;
long lParam;
RDS rds;
RIS ris;
```

```
CHP chp;
PAP pap;
SEP sep;
DOP dop;
SAVE *psave;
FILE *fpIn;
// %%Function: main
// Main loop. Initialize and parse RTF.
main(int argc, char *argv[])
   FILE *fp;
   int ec;
   fp = fpIn = fopen("test.rtf", "r");
   if (!fp)
       printf ("Can't open test file!\n");
       return 1;
    if ((ec = ecRtfParse(fp)) != ecOK)
       printf("error %d parsing rtf\n", ec);
       printf("Parsed RTF file OK\n");
   fclose(fp);
   return 0;
}
// %%Function: ecRtfParse
// Step 1:
// Isolate RTF keywords and send them to ecParseRtfKeyword;
// Push and pop state at the start and end of RTF groups;
// Send text to ecParseChar for further processing.
int ecRtfParse(FILE *fp)
   int ch;
   int ec;
   int cNibble = 2;
   int b = 0;
   while ((ch = getc(fp)) != EOF)
```

```
{
   if (cGroup < 0)
       return ecStackUnderflow;
   if (ris == risBin)
                                           // if we're parsing binary data, handle it directly
       if ((ec = ecParseChar(ch)) != ecOK)
          return ec;
   }
   else
   {
       switch (ch)
       {
       case '{':
           if ((ec = ecPushRtfState()) != ecOK)
              return ec;
           break;
       case '}':
           if ((ec = ecPopRtfState()) != ecOK)
               return ec;
           break;
       case '\\':
           if ((ec = ecParseRtfKeyword(fp)) != ecOK)
              return ec;
           break;
       case 0x0d:
                    // cr and lf are noise characters...
       case 0x0a:
           break;
       default:
           if (ris == risNorm)
               if ((ec = ecParseChar(ch)) != ecOK)
                  return ec;
           }
           else
                         // parsing hex data
               if (ris != risHex)
                  return ecAssertion;
               b = b << 4;
               if (isdigit(ch))
                  b += (char) ch - '0';
               else
                  if (islower(ch))
```

```
if (ch < 'a' || ch > 'f')
                               return ecInvalidHex;
                           b += (char) ch - 'a' + 10;
                       else
                        {
                           if (ch < 'A' || ch > 'F')
                               return ecInvalidHex;
                           b += (char) ch - 'A' + 10;
                   cNibble--;
                    if (!cNibble)
                       if ((ec = ecParseChar(b)) != ecOK)
                           return ec;
                       cNibble = 2;
                       b = 0;
                       ris = risNorm;
               }
                                  // end else (ris != risNorm)
               break;
                // switch
                  // else (ris != risBin)
                   // while
   if (cGroup < 0)
       return ecStackUnderflow;
   if (cGroup > 0)
       return ecUnmatchedBrace;
   return ecOK;
}
// %%Function: ecPushRtfState
//
// Save relevant info on a linked list of SAVE structures.
int ecPushRtfState(void)
   SAVE *psaveNew = malloc(sizeof(SAVE));
   if (!psaveNew)
       return ecStackOverflow;
```

```
psaveNew -> pNext = psave;
    psaveNew -> chp = chp;
    psaveNew -> pap = pap;
    psaveNew -> sep = sep;
    psaveNew -> dop = dop;
    psaveNew -> rds = rds;
    psaveNew -> ris = ris;
    ris = risNorm;
    psave = psaveNew;
   cGroup++;
   return ecOK;
}
// %%Function: ecPopRtfState
// If we're ending a destination (that is, the destination is changing),
// call ecEndGroupAction.
\ensuremath{//} Always restore relevant info from the top of the SAVE list.
int ecPopRtfState(void)
    SAVE *psaveOld;
    int ec;
    if (!psave)
        return ecStackUnderflow;
    if (rds != psave->rds)
        if ((ec = ecEndGroupAction(rds)) != ecOK)
            return ec;
    chp = psave->chp;
    pap = psave->pap;
    sep = psave->sep;
    dop = psave->dop;
    rds = psave->rds;
    ris = psave->ris;
    psaveOld = psave;
    psave = psave->pNext;
    cGroup--;
    free (psaveOld);
```

```
return ecOK;
// %%Function: ecParseRtfKeyword
// Step 2:
\ensuremath{//} get a control word (and its associated value) and
// call ecTranslateKeyword to dispatch the control.
int ecParseRtfKeyword(FILE *fp)
   int ch;
   char fParam = fFalse;
   char fNeg = fFalse;
   int param = 0;
   char *pch;
   char szKeyword[30];
   char *pKeywordMax = &szKeyword[30];
   char szParameter[20];
   char *pParamMax = &szParameter[20];
   1Param = 0;
   szKeyword[0] = '\0';
    szParameter[0] = ' \ 0';
   if ((ch = getc(fp)) == EOF)
        return ecEndOfFile;
    if (!isalpha(ch))
                        // a control symbol; no delimiter.
        szKeyword[0] = (char) ch;
       szKeyword[1] = '\0';
        return ecTranslateKeyword(szKeyword, 0, fParam);
    for (pch = szKeyword; pch < pKeywordMax && isalpha(ch); ch = getc(fp))</pre>
        *pch++ = (char) ch;
    if (pch >= pKeywordMax)
        return ecInvalidKeyword; // Keyword too long
    *pch = '\0';
   if (ch == '-')
        fNeg = fTrue;
        if ((ch = getc(fp)) == EOF)
           return ecEndOfFile;
    }
```

```
if (isdigit(ch))
        fParam = fTrue; // a digit after the control means we have a parameter
        for (pch = szParameter; pch < pParamMax && isdigit(ch); ch = getc(fp))</pre>
           *pch++ = (char) ch;
        if (pch >= pParamMax)
           return ecInvalidParam; // Parameter too long
        *pch = '\0';
        param = atoi(szParameter);
        if (fNeg)
           param = -param;
        lParam = param;
   if (ch != ' ')
       ungetc(ch, fp);
   return ecTranslateKeyword(szKeyword, param, fParam);
// %%Function: ecParseChar
// Route the character to the appropriate destination stream.
int ecParseChar(int ch)
   if (ris == risBin && --cbBin <= 0)
       ris = risNorm;
   switch (rds)
    case rdsSkip:
       // Toss this character.
        return ecOK;
    case rdsNorm:
        // Output a character. Properties are valid at this point.
        return ecPrintChar(ch);
    // handle other destinations....
       return ecOK;
   }
// %%Function: ecPrintChar
\ensuremath{//} Send a character to the output file.
```

```
int ecPrintChar(int ch)
{
   // unfortunately, we do not do a whole lot here as far as layout goes...
   putchar(ch);
   return ecOK;
rtfactn.c
#include <stdio.h>
#include <string.h>
#include <stddef.h>
#include <ctype.h>
#include "rtftype.h"
#include "rtfdecl.h"
// RTF parser tables
// Property descriptions
PROP rgprop [ipropMax] = {
   actnByte, propChp, offsetof(CHP, fBold),
                                                    // ipropBold
   actnByte, propChp, offsetof(CHP, fItalic),
                                                    // ipropItalic
   actnByte, propChp, offsetof(CHP, fUnderline), // ipropUnderline
   actnWord, propPap, offsetof(PAP, xaLeft),
                                                    // ipropLeftInd
                                                    // ipropRightInd
   actnWord, propPap, offsetof(PAP, xaRight),
                        offsetof(PAP, xaFirst),
   actnWord, propPap,
                                                    // ipropFirstInd
   actnWord, propSep, offsetof(SEP, cCols),
                                                    // ipropCols
   actnWord, propSep, offsetof(SEP, xaPgn),
                                                    // ipropPgnX
   actnWord,
              propSep, offsetof(SEP, yaPgn),
                                                    // ipropPgnY
   actnWord, propDop, offsetof(DOP, xaPage),
                                                    // ipropXaPage
   actnWord,
              propDop,
                        offsetof(DOP, yaPage),
                                                    // ipropYaPage
              propDop, offsetof(DOP, xaLeft),
                                                    // ipropXaLeft
   actnWord,
              propDop, offsetof(DOP, xaRight),
                                                    // ipropXaRight
   actnWord.
                                                    // ipropYaTop
   actnWord,
              propDop,
                         offsetof(DOP, yaTop),
   actnWord, propDop,
                       offsetof(DOP, yaBottom),
                                                    // ipropYaBottom
   actnWord,
                        offsetof(DOP, pgnStart),
                                                    // ipropPgnStart
              propDop,
   actnByte, propSep, offsetof(SEP, sbk),
                                                    // ipropSbk
   actnByte,
                       offsetof(SEP, pgnFormat),
                                                   // ipropPgnFormat
              propSep,
                        offsetof(DOP, fFacingp),
                                                    // ipropFacingp
   actnByte,
              propDop,
   actnByte,
              propDop,
                        offsetof(DOP, fLandscape), // ipropLandscape
                         offsetof(PAP, just),
                                                    // ipropJust
   actnByte,
              propPap,
                         Ο,
                                                    // ipropPard
   actnSpec,
              propPap,
                                                    // ipropPlain
   actnSpec,
              propChp,
                          0,
                                                    // ipropSectd
   actnSpec,
              propSep,
                          0,
```

```
};
// Keyword descriptions
SYM rgsymRtf[] = {
// keyword
               dflt
                                               idx
                       fPassDflt
    "b",
                                               ipropBold,
               1.
                      fFalse.
                                   kwdProp,
    "u",
               1,
                      fFalse,
                                   kwdProp,
                                               ipropUnderline,
   "i",
               1,
                       fFalse,
                                   kwdProp,
                                               ipropItalic,
   "li",
               Ο,
                      fFalse,
                                   kwdProp,
                                               ipropLeftInd,
   "ri",
               Ο,
                      fFalse,
                                   kwdProp,
                                               ipropRightInd,
    "fi",
               Ο,
                       fFalse,
                                               ipropFirstInd,
                                   kwdProp,
    "cols",
              1,
                       fFalse,
                                   kwdProp,
                                               ipropCols,
    "sbknone", sbkNon, fTrue,
                                   kwdProp,
                                               ipropSbk,
    "sbkcol", sbkCol, fTrue,
                                   kwdProp,
                                               ipropSbk,
    "sbkeven", sbkEvn, fTrue,
                                   kwdProp,
                                               ipropSbk,
    "sbkodd", sbkOdd, fTrue,
                                   kwdProp,
                                               ipropSbk,
    "sbkpage", sbkPg, fTrue,
                                   kwdProp,
                                               ipropSbk,
    "pgnx",
             0,
                      fFalse,
                                   kwdProp,
                                               ipropPgnX,
             0,
    "pgny",
                      fFalse,
                                   kwdProp,
                                               ipropPgnY,
    "pgndec", pgDec, fTrue,
                                   kwdProp,
                                               ipropPgnFormat,
    "pgnucrm", pgURom, fTrue,
                                   kwdProp,
                                               ipropPqnFormat,
    "pgnlcrm", pgLRom, fTrue,
                                   kwdProp,
                                               ipropPgnFormat,
    "pgnucltr", pgULtr, fTrue,
                                   kwdProp,
                                               ipropPgnFormat,
    "pgnlcltr", pgLLtr, fTrue,
                                   kwdProp,
                                               ipropPgnFormat,
    "qc",
               justC, fTrue,
                                   kwdProp,
                                               ipropJust,
    "ql",
               justL, fTrue,
                                   kwdProp,
                                               ipropJust,
               justR, fTrue,
    "qr",
                                   kwdProp,
                                               ipropJust,
               justF, fTrue,
    "qj",
                                   kwdProp,
                                               ipropJust,
    "paperw",
               12240, fFalse,
                                   kwdProp,
                                               ipropXaPage,
               15480, fFalse,
    "paperh",
                                   kwdProp,
                                               ipropYaPage,
    "margl",
               1800,
                      fFalse,
                                   kwdProp,
                                               ipropXaLeft,
    "margr",
              1800, fFalse,
                                   kwdProp,
                                               ipropXaRight,
    "margt",
               1440, fFalse,
                                   kwdProp,
                                               ipropYaTop,
    "margb",
               1440,
                      fFalse,
                                   kwdProp,
                                               ipropYaBottom,
    "pgnstart", 1,
                       fTrue,
                                   kwdProp,
                                               ipropPgnStart,
    "facingp", 1,
                       fTrue,
                                   kwdProp,
                                               ipropFacingp,
   "landscape",1,
                       fTrue,
                                   kwdProp,
                                               ipropLandscape,
    "par", 0,
                       fFalse,
                                   kwdChar,
                                               0x0a,
    "\0x0a",
               Ο,
                       fFalse,
                                   kwdChar,
                                               0x0a,
    "\0x0d", 0,
                       fFalse,
                                   kwdChar,
                                               0x0a,
    "tab",
               0,
                       fFalse,
                                   kwdChar,
                                               0x09,
                                               1"1,
    "ldblquote",0,
                       fFalse,
                                   kwdChar,
                                               1"1,
    "rdblquote",0,
                       fFalse,
                                   kwdChar,
```

```
"bin",
               Ο,
                      fFalse,
                                  kwdSpec,
                                              ipfnBin,
    "*",
              Ο,
                     fFalse,
                                             ipfnSkipDest,
                                  kwdSpec,
    """,
              0,
                                              ipfnHex,
                     fFalse,
                                  kwdSpec,
    "author", 0,
                      fFalse,
                                  kwdDest,
                                              idestSkip,
    "buptim", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "colortbl", 0,
                      fFalse,
                                  kwdDest,
                                              idestSkip,
    "comment", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "creatim", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "doccomm", 0,
                      fFalse,
                                  kwdDest,
                                              idestSkip,
    "fonttbl", 0,
                      fFalse,
                                  kwdDest,
                                            idestSkip,
    "footer", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "footerf", 0,
                      fFalse,
                                  kwdDest,
                                            idestSkip,
    "footerl", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "footerr", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "footnote", 0,
                      fFalse,
                                  kwdDest,
                                            idestSkip,
    "ftncn", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "ftnsep", 0,
                      fFalse,
                                             idestSkip,
                                  kwdDest,
    "ftnsepc", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "header", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "headerf", 0,
                      fFalse,
                                  kwdDest,
                                            idestSkip,
    "headerl", 0,
                      fFalse,
                                  kwdDest,
                                              idestSkip,
    "headerr", 0,
                     fFalse,
                                  kwdDest,
                                            idestSkip,
    "info", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "keywords", 0,
                      fFalse,
                                  kwdDest,
                                              idestSkip,
    "operator", 0,
                      fFalse,
                                  kwdDest,
                                            idestSkip,
    "pict", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "printim", 0,
                      fFalse,
                                  kwdDest,
                                            idestSkip,
    "private1", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "revtim", 0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "rxe", 0,
                      fFalse,
                                  kwdDest,
                                            idestSkip,
    "stylesheet",0,
                      fFalse,
                                  kwdDest,
                                              idestSkip,
    "subject", 0,
                     fFalse,
                                  kwdDest,
                                            idestSkip,
   "tc",
            0,
                      fFalse,
                                  kwdDest,
                                             idestSkip,
    "title",
                      fFalse,
                                  kwdDest,
                                              idestSkip,
              Ο,
   "txe",
             Ο,
                     fFalse,
                                  kwdDest,
                                            idestSkip,
    "xe",
               0.
                                              idestSkip,
                      fFalse,
                                  kwdDest,
   "{",
              0,
                                              '{',
                      fFalse,
                                  kwdChar,
   "}",
                                  kwdChar,
                                              '}',
               Ο,
                      fFalse,
                                              ' \ \ '
    "\\",
               Ο,
                       fFalse,
                                  kwdChar,
    };
int isymMax = sizeof(rgsymRtf) / sizeof(SYM);
```

^{//} $\mbox{\ensuremath{\mbox{\$}}\xspace{$\mbox{Function:}}}$ ecApplyPropChange

```
// Set the property identified by \tt \_iprop\_ to the value \tt \_val\_.
int ecApplyPropChange(IPROP iprop, int val)
   char *pb;
   if (rds == rdsSkip)
                                        // If we're skipping text,
       return ecOK;
                                        // Do not do anything.
    switch (rgprop[iprop].prop)
   case propDop:
       pb = (char *) &dop;
       break;
    case propSep:
       pb = (char *)&sep;
       break;
   case propPap:
        pb = (char *) &pap;
       break;
    case propChp:
        pb = (char *) &chp;
       break;
    default:
        if (rgprop[iprop].actn != actnSpec)
           return ecBadTable;
       break;
    switch (rgprop[iprop].actn)
    case actnByte:
       pb[rgprop[iprop].offset] = (unsigned char) val;
       break;
    case actnWord:
        (*(int *) (pb+rgprop[iprop].offset)) = val;
       break;
   case actnSpec:
       return ecParseSpecialProperty(iprop, val);
       break;
    default:
       return ecBadTable;
    return ecOK;
}
```

```
// %%Function: ecParseSpecialProperty
// Set a property that requires code to evaluate.
int ecParseSpecialProperty(IPROP iprop, int val)
{
   switch (iprop)
    case ipropPard:
       memset(&pap, 0, sizeof(pap));
       return ecOK;
    case ipropPlain:
       memset(&chp, 0, sizeof(chp));
        return ecOK;
   case ipropSectd:
       memset(&sep, 0, sizeof(sep));
       return ecOK;
    default:
       return ecBadTable;
   return ecBadTable;
}
// %%Function: ecTranslateKeyword
// Step 3.
// Search rgsymRtf for szKeyword and evaluate it appropriately.
// Inputs:
// szKeyword: The RTF control to evaluate.
               The parameter of the RTF control.
// fParam:
              fTrue if the control had a parameter; (that is, if param is valid)
               fFalse if it did not.
int ecTranslateKeyword(char *szKeyword, int param, bool fParam)
   int isym;
    // search for szKeyword in rgsymRtf
    for (isym = 0; isym < isymMax; isym++)</pre>
       if (strcmp(szKeyword, rgsymRtf[isym].szKeyword) == 0)
   if (isym == isymMax)
                                  // control word not found
        if (fSkipDestIfUnk)
                                  // if this is a new destination
```

```
// skip the destination
           rds = rdsSkip;
                                   // else just discard it
        fSkipDestIfUnk = fFalse;
        return ecOK;
    // found it! Use kwd and idx to determine what to do with it.
    fSkipDestIfUnk = fFalse;
    switch (rgsymRtf[isym].kwd)
    case kwdProp:
       if (rgsymRtf[isym].fPassDflt || !fParam)
           param = rgsymRtf[isym].dflt;
        return ecApplyPropChange(rgsymRtf[isym].idx, param);
    case kwdChar:
       return ecParseChar(rgsymRtf[isym].idx);
    case kwdDest:
       return ecChangeDest(rgsymRtf[isym].idx);
    case kwdSpec:
       return ecParseSpecialKeyword(rgsymRtf[isym].idx);
    default:
       return ecBadTable;
   return ecBadTable;
// %%Function: ecChangeDest
\ensuremath{//} Change to the destination specified by idest.
// There's usually more to do here than this...
int ecChangeDest(IDEST idest)
                                // if we're skipping text,
   if (rds == rdsSkip)
       return ecOK;
                                  // Do not do anything
   switch (idest)
   default:
                        // when in doubt, skip it...
       rds = rdsSkip;
       break;
    return ecOK;
}
```

```
// %%Function: ecEndGroupAction
\ensuremath{//} The destination specified by rds is coming to a close.
// If there's any cleanup that needs to be done, do it now.
int ecEndGroupAction(RDS rds)
    return ecOK;
// %%Function: ecParseSpecialKeyword
\ensuremath{//} Evaluate an RTF control that needs special processing.
int ecParseSpecialKeyword(IPFN ipfn)
    if (rds == rdsSkip && ipfn != ipfnBin) // if we're skipping, and it is not
       return ecOK;
                                            // the \bin keyword, ignore it.
    switch (ipfn)
    case ipfnBin:
       ris = risBin;
       cbBin = lParam;
       break;
    case ipfnSkipDest:
       fSkipDestIfUnk = fTrue;
        break;
    case ipfnHex:
       ris = risHex;
       break;
    default:
        return ecBadTable;
    return ecOK;
makefile
rtfreadr.exe: rtfactn.obj rtfreadr.obj
    link rtfreadr.obj rtfactn.obj <nul
rtfactn.obj: rtfactn.c rtfdecl.h rtftype.h
```

rtfreadr.obj: rtfreadr.c rtfdecl.h rtftype.h

Appendix B: Index of RTF Control Words

The control word table contains a list of each RTF control word, the name of the section where it may be found, and its type. The types are described in the following table.

Type	Meaning
Flag	This control word ignores any parameter.
Destination	This control word starts a group or destination. It ignores any parameter.
Symbol	This control word represents a special character.
Toggle	This control word distinguishes between the ON and OFF states for the given property. The control word with no parameter or a nonzero parameter is used to turn on the property, while the control word with a zero parameter is used to turn it off.
Value	This control word requires a parameter.

Note: In the following table, the names of all control words added in version 95 or later are flagged with the version number in which they were added (95, 97, 2000, 2002, 2003, 2007). Control words defined in the 1987 RTF Specification are flagged with 87. More control words were in Word 3.0 for the Apple Macintosh in 1987, but the basic destinations are defined in the specification. For the Word 2007 Compatibility Pack, many control words that were added by Word 2007 had to be ported back to Word 2003 and Word 2002 via patches. So there are quite a few control words flagged with 2007 that can now be recognized by the older Word versions.

Control word	Described in section	Туре	
\' 87	Special Characters	Symbol	
\- 87	Special Characters	Symbol	
*	Special Characters	Symbol	
\:	Special Characters	Symbol	
\\	Special Characters	Symbol	
<u></u> 87	Special Characters	Symbol	
\{	Special Characters	Symbol	
\ 87	Special Characters	Symbol	
\}	Special Characters	Symbol	
\~ ⁸⁷	Special Characters	Symbol	
\ab	Associated Character Properties	Toggle	
\abshN	Positioned Objects and Frames	Value	
\abslock ⁹⁵	Positioned Objects and Frames	Flag	
\absnoovrlpN ²⁰⁰⁰	Positioned Objects and Frames	Toggle	
\abswN	Positioned Objects and Frames	Value	
\acaps	Associated Character Properties	Toggle	
\acccircle ²⁰⁰³	Font (Character) Formatting Properties	Toggle	
\acccomma ⁹⁵	Font (Character) Formatting Properties	Toggle	

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Control word	Described in section	Туре
\accdot ⁹⁵	Font (Character) Formatting Properties	Toggle
\accnone ⁹⁵	<u>Font (Character) Formatting</u> <u>Properties</u>	Toggle
\accunderdot ²⁰⁰³	<u>Font (Character) Formatting</u> <u>Properties</u>	Toggle
\acf/V	Associated Character Properties	Value
\adeffN ²⁰⁰⁰	Default Fonts	Value
\additive	Style Sheet	Flag
\adeflang N ²⁰⁰⁰	<u>Default Fonts</u>	Value
\adjustright ⁹⁷	Section Formatting Properties	Flag
\adnN	Associated Character Properties	Value
\aenddoc	Document Formatting Properties	Flag
\aendnotes	Document formatting Properties	Flag
\aexpnd <i>N</i>	Associated Character Properties	Value
\af/V	Associated Character Properties	Value
\afelev ²⁰⁰⁷	Document Formatting Properties	Flag
\afs/V	Associated Character Properties	Value
\aftnbj	<u>Document Formatting Properties</u>	Flag
\aftncn	Document Formatting Properties	Destination
\aftnnalc	Document Formatting Properties	Flag
\aftnnar	Document Formatting Properties	Flag
\aftnnauc	<u>Document Formatting Properties</u>	Flag
\aftnnchi	<u>Document Formatting Properties</u>	Flag
\aftnnchosung 97	Document Formatting Properties	Flag
\aftnncnum ⁹⁷	Document Formatting Properties	Flag
\aftnndbar ⁹⁷	Document Formatting Properties	Flag
\aftnndbnum ⁹⁷	Document Formatting Properties	Flag
\aftnndbnumd ⁹⁷	Document Formatting Properties	Flag
\aftnndbnumk ⁹⁷	Document Formatting Properties	Flag
\aftnndbnumt ⁹⁷	Document Formatting Properties	Flag
\aftnnganada ⁹⁷	Document Formatting Properties	Flag
\aftnngbnum ⁹⁷	Document Formatting Properties	Flag
\aftnngbnumd ⁹⁷	Document Formatting Properties	Flag
\aftnngbnumk ⁹⁷	Document Formatting Properties	Flag
\aftnngbnuml ⁹⁷	<u>Document Formatting Properties</u>	Flag
\aftnnrlc	Document Formatting Properties	Flag
\aftnnruc	<u>Document Formatting Properties</u>	Flag
\aftnnzodiac ⁹⁷	<u>Document Formatting Properties</u>	Flag
\aftnnzodiacd ⁹⁷	<u>Document Formatting Properties</u>	Flag
\aftnnzodiacl ⁹⁷	<u>Document Formatting Properties</u>	Flag
\aftnrestart	Document Formatting Properties	Flag
		-

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Control word	Described in section	Туре
\aftnrstcont	Document Formatting Properties	Flag
\aftnsep	Document Formatting Properties	Destination
\aftnsepc	Document Formatting Properties	Destination
\aftnstart <i>N</i>	Document Formatting Properties	Value
\aftntj	Document Formatting Properties	Flag
\ai	Associated Character Properties	Toggle
\alang <i>N</i>	Associated Character Properties	Value
\allowfieldendsel ²⁰⁰²	Document Formatting Properties	Flag
\allprot	Document Formatting Properties	Flag
\alntblind ²⁰⁰⁰	Document Formatting Properties	Flag
\alt	Style Sheet	Flag
\animtextN 97	Font (Character) Formatting Properties	Value
\annotation	Comments (Annotations)	Destination
\annotprot	Document Formatting Properties	Flag
\ansi ⁸⁷	Character Set	Flag
\ansicpgN ⁹⁷	Character Set	Value
\aoutl	Associated Character Properties	Toggle
\ApplyBrkRules 2002	Document Formatting Properties	Flag
\ascaps	Associated Character Properties	Toggle
\ashad	Associated Character Properties	Toggle
\asianbrkrule ²⁰⁰²	Document Formatting Properties	Flag
\aspalpha ⁹⁵	Paragraph Formatting Properties	Toggle
\aspnum ⁹⁵	Paragraph Formatting Properties	Toggle
\astrike	Associated Character Properties	Toggle
\atnauthor ²⁰⁰²	Comments (Annotations)	Destination
\atndate	Comments (Annotations)	Destination
\atnicn	Comments (Annotations)	Destination
\atnid	Comments (Annotations)	Destination
\atnparent ²⁰⁰²	Comments (Annotations)	Destination
\atnref	Comments (Annotations)	Destination
\atntime	Comments (Annotations)	Destination
\atrfend	Comments (Annotations)	Destination
\atrfstart	Comments (Annotations)	Destination
\aul	Associated Character Properties	Toggle
\auld	Associated Character Properties	Toggle
\auldb	Associated Character Properties	Toggle
\aulnone	Associated Character Properties	Toggle
\aulw	Associated Character Properties	Toggle
\aupN	Associated Character Properties	Value
\author ⁸⁷	Information Group	Destination
•		

Control word	Described in section	Туре
\autofmtoverride ²⁰⁰³	Document Formatting Properties	Flag
\b ⁸⁷	Font (Character) Formatting Properties	Toggle
\background ⁹⁷	Document Formatting Properties	Destination
\bdbfhdr ⁹⁷	Document Formatting Properties	Flag
\bdrrlswsix ²⁰⁰⁰	Document Formatting Properties	Flag
\bgbdiag	Paragraph Shading	Flag
\bgcross	Paragraph Shading	Flag
\bgdcross	Paragraph Shading	Flag
\bgdkbdiag	Paragraph Shading	Flag
\bgdkcross	Paragraph Shading	Flag
\bgdkdcross	Paragraph Shading	Flag
\bgdkfdiag	Paragraph Shading	Flag
\bgdkhoriz	Paragraph Shading	Flag
\bgdkvert	Paragraph Shading	Flag
\bgfdiag	Paragraph Shading	Flag
\bghoriz	Paragraph Shading	Flag
\bgvert	Paragraph Shading	Flag
\bin N ⁸⁷	<u>Pictures</u>	Value
\binfsxn <i>N</i>	Section Formatting Properties	Value
\binsxn <i>N</i>	Section Formatting Properties	Value
\bkmkcolf <i>N</i>	<u>Bookmarks</u>	Value
\bkmkcoll <i>N</i>	<u>Bookmarks</u>	Value
\bkmkend	<u>Bookmarks</u>	Destination
\bkmkpub	<u>Macintosh Edition Manager Publisher</u> <u>Objects</u>	Flag
\bkmkstart	<u>Bookmarks</u>	Destination
\bliptag <i>N</i> ⁹⁷	<u>Pictures</u>	Value
\blipuid ⁹⁷	<u>Pictures</u>	Destination
\blipupi N ⁹⁷	<u>Pictures</u>	Value
\blueN ⁸⁷	Color Table	Value
\bookfold ²⁰⁰²	Document Formatting Properties	Flag
\bookfoldrev 2002	Document Formatting Properties	Flag
\bookfoldsheetsN ²⁰⁰²	Document Formatting Properties	Value
\box ⁸⁷	Paragraph Borders	Flag
\brdrartN ⁹⁷	Document Formatting Properties	Value
\brdrb ⁸⁷	Paragraph Borders	Flag
\brdrbar	Paragraph Borders	Flag
\brdrbtw	Paragraph Borders	Flag
\brdrcf <i>N</i>	Paragraph Borders	Value
\brdrdash	Paragraph Borders	Flag

Control word	Described in section	Туре
\brdrdashd ⁹⁷	Paragraph Borders	Flag
\brdrdashdd ⁹⁷	Paragraph Borders	Flag
\brdrdashdot ⁹⁷	Paragraph Borders	Flag
\brdrdashdotdot ⁹⁷	Paragraph Borders	Flag
\brdrdashdotstr ⁹⁷	Paragraph Borders	Flag
\brdrdashsm ⁹⁷	Paragraph Borders	Flag
\brdrdb ⁸⁷	Paragraph Borders	Flag
\brdrdot	Paragraph Borders	Flag
\brdremboss 97	Paragraph Borders	Flag
\brdrengrave 97	Paragraph Borders	Flag
\brdrframe ⁹⁷	Paragraph Borders	Flag
\brdrhair	Paragraph Borders	Flag
\brdrinset ²⁰⁰⁰	Paragraph Borders	Flag
\brdrl ⁸⁷	Paragraph Borders	Flag
\brdrnil ²⁰⁰²	Paragraph Borders	Flag
\brdrnone	Paragraph Borders	Flag
\brdroutset ²⁰⁰⁰	Paragraph Borders	Flag
\brdrr ⁸⁷	Paragraph Borders	Flag
\brdrs ⁸⁷	Paragraph Borders	Flag
\brdrsh ⁸⁷	<u>Paragraph Borders</u>	Flag
\brdrt ⁸⁷	Paragraph Borders	Flag
\brdrtbl ²⁰⁰²	Paragraph Borders	Flag
\brdrth ⁸⁷	Paragraph Borders	Flag
\brdrthtnlg ⁹⁷	Paragraph Borders	Flag
\brdrthtnmg ⁹⁷	Paragraph Borders	Flag
\brdrthtnsg ⁹⁷	Paragraph Borders	Flag
\brdrtnthlg ⁹⁷	Paragraph Borders	Flag
\brdrtnthmg ⁹⁷	Paragraph Borders	Flag
\brdrtnthsg ⁹⁷	Paragraph Borders	Flag
\brdrtnthtnlg ⁹⁷	Paragraph Borders	Flag
\brdrtnthtnmg ⁹⁷	Paragraph Borders	Flag
\brdrtnthtnsg ⁹⁷	<u>Paragraph Borders</u>	Flag
\brdrtriple ⁹⁷	Paragraph Borders	Flag
\brdrw/V	Paragraph Borders	Value
\brdrwavy ⁹⁷	Paragraph Borders	Flag
\brdrwavydb ⁹⁷	Paragraph Borders	Flag
\brkfrm	Document Formatting Properties	Flag
\brsp <i>N</i>	Paragraph Borders	Value
\bullet	Special Characters	Symbol
\buptim ⁸⁷	Information Group	Destination
\bxe	Index Entries	Flag

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Control word	Described in section	Туре	
\caccentfive ²⁰⁰⁷	Color Table	Flag	_
\caccentfour ²⁰⁰⁷	Color Table	Flag	
\caccentone 2007	Color Table	Flag	
\caccentsix ²⁰⁰⁷	Color Table	Flag	
\caccentthree ²⁰⁰⁷	Color Table	Flag	
\caccenttwo ²⁰⁰⁷	Color Table	Flag	
\cachedcolbal ²⁰⁰⁷	Document Formatting Properties	Flag	
\caps ⁸⁷	Font (Character) Formatting Properties	Toggle	
\category 95	Information Group	Destination	
\cbN ⁸⁷	Font (Character) Formatting Properties	Value	
\cbackgroundone 2007	<u>Color Table</u>	Flag	
\cbackgroundtwo ²⁰⁰⁷	<u>Color Table</u>	Flag	
\cbpatN	Paragraph Shading	Value	
\cchs/V	<u>Font (Character) Formatting</u> <u>Properties</u>	Value	
\cell	<u>Table Definitions</u>	Symbol	
\cellx/V	<u>Table Definitions</u>	Value	
\cfN ⁸⁷	<u>Font (Character) Formatting</u> <u>Properties</u>	Value	
\cfollowedhyperlink ²⁰⁰⁷	<u>Color Table</u>	Flag	
\cfpat/V	Paragraph Shading	Value	
\cgridN ⁹⁷	East Asian Control Words	Value	
\charrsidN ²⁰⁰²	<u>Track Changes (Revision Marks)</u>	Value	
\charscalexN 95	<u>Font (Character) Formatting</u> <u>Properties</u>	Value	
\chatn	Special Characters	Symbol	
\chbgbdiag ⁹⁷	Character Borders and Shading	Flag	
\chbgcross ⁹⁷	Character Borders and Shading	Flag	
\chbgdcross ⁹⁷	Character Borders and Shading	Flag	
\chbgdkbdiag ⁹⁷	Character Borders and Shading	Flag	
\chbgdkcross 97	<u>Character Borders and Shading</u>	Flag	
\chbgdkdcross ⁹⁷	<u>Character Borders and Shading</u>	Flag	
\chbgdkfdiag ⁹⁷	Character Borders and Shading	Flag	
\chbgdkhoriz ⁹⁷	Character Borders and Shading	Flag	
\chbgdkvert ⁹⁷	Character Borders and Shading	Flag	
\chbgfdiag ⁹⁷	<u>Character Borders and Shading</u>	Flag	
\chbghoriz ⁹⁷	<u>Character Borders and Shading</u>	Flag	
\chbgvert ⁹⁷	<u>Character Borders and Shading</u>	Flag	
\chbrdr ⁹⁷	Character Borders and Shading	Flag	
\chcbpatN ⁹⁷	Character Borders and Shading	Value	

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ChcfpatW *** Character Borders and Shading Value Vchdate *** Special Characters Symbol Vchdpa Special Characters Symbol Vchdpl Special Characters Symbol Vchfin** Special Characters Symbol Vchfinsep Special Characters Symbol Vchfinsep Special Characters Symbol Vchpun*** Special Characters Symbol Vchyperlink*** Special Characters Symbol Vchyberlink*** Hyphenation Information Value Vchyberlink*** Color Table Flag Vchyberlink** Flag Flag Vchyberlink** Flag Flag Vchyberlink** Flag Flag Vchyberlink** Flag	Control word	Described in section	Туре	
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\clinsdttm N ²⁰⁰⁷	Table Definitions	Value	
\clmgf	Table Definitions	Flag	
\clmrg	Table Definitions	Flag	
\clmrgd ²⁰⁰⁷	Table Definitions	Flag	
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\clpadfbN ²⁰⁰⁰	Table Definitions	Value	
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\clpadfrN ²⁰⁰⁰	Table Definitions	Value	
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\deflangfeN 97	<u>Default Fonts</u>	Value
\defpap ²⁰⁰⁷	<u>Default Properties</u>	Destination
\defshp ²⁰⁰⁰	<u>Pictures</u>	Flag
\deftabN ⁸⁷	Document Formatting Properties	Value
\deleted	Character Revision Mark Properties	Toggle
\delrsidN ²⁰⁰²	Track Changes (Revision Marks)	Value
\dfrauthN 97	Paragraph Revision Mark Properties	Value
\dfrdateN 97	Paragraph Revision Mark Properties	Value
\dfrmtxtx <i>N</i>	Positioned Objects and Frames	Value
\dfrmtxty <i>N</i>	Positioned Objects and Frames	Value
\dfrstart ⁹⁷	Paragraph Revision Mark Properties	Value
\dfrstop 97	Paragraph Revision Mark Properties	Value
\dfrxst ⁹⁷	Paragraph Revision Mark Properties	Value
\dghoriginN 95	Document Formatting Properties	Value
\dghshowN 95	Document Formatting Properties	Value
\dghspaceN ⁹⁵	Document Formatting Properties	Value
\dgmargin ⁹⁷	Document Formatting Properties	Flag
\dgsnap ⁹⁵	Document Formatting Properties	Flag
\dgvoriginN ⁹⁵	Document Formatting Properties	Value
\dgvshowN 95	Document Formatting Properties	Value
\dgvspaceN 95	Document Formatting Properties	Value
\dibitmap <i>N</i>	<u>Pictures</u>	Value
\disabled	<u>Control Words Introduced by Other</u> <u>Microsoft Products</u>	Toggle
\dn <i>N</i> ⁸⁷	Font (Character) Formatting Properties	Value
\dntblnsbdb ⁹⁷	Document Formatting Properties	Flag
\do	Drawing Objects	Destination
\dobxcolumn	Drawing Objects	Flag
\dobxmargin	Drawing Objects	Flag
\dobxpage	Drawing Objects	Flag
\dobymargin	Drawing Objects	Flag
\dobypage	Drawing Objects	Flag
\dobypara	Drawing Objects	Flag
\doccomm ⁸⁷	Information Group	Destination
\doctemp	Document Formatting Properties	Flag
\doctypeN 97	Document Formatting Properties	Value
\docvar ⁹⁵	Document Variables	Destination
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\dpcotright <u>Drawing Objects</u> Flag	
\dpcotsingle <u>Drawing Objects</u> Flag	
\dpcottriple <u>Drawing Objects</u> Flag	
\dpcountN \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
\dpellipse	
\dpendgroup <u>Drawing Objects</u> Flag	
\dpfillbgcbN <u>Drawing Objects</u> Value	
\dpfillbgcgN	

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Control word	Described in section	Туре
\dpfillbgcrN	<u>Drawing Objects</u>	Value
\dpfillbggray <i>N</i>	Drawing Objects	Value
\dpfillbgpal	Drawing Objects	Flag
\dpfillfgcbN	Drawing Objects	Value
\dpfillfgcgN	Drawing Objects	Value
\dpfillfgcr <i>N</i>	Drawing Objects	Value
\dpfillfggray <i>N</i>	Drawing Objects	Value
\dpfillfgpal	Drawing Objects	Flag
\dpfillpat/V	Drawing Objects	Value
\dpgroup	Drawing Objects	Flag
\dpline	Drawing Objects	Flag
\dplinecob <i>N</i>	Drawing Objects	Value
\dplinecog <i>N</i>	Drawing Objects	Value
\dplinecor <i>N</i>	Drawing Objects	Value
\dplinedado	Drawing Objects	Flag
\dplinedadodo	Drawing Objects	Flag
\dplinedash	Drawing Objects	Flag
\dplinedot	Drawing Objects	Flag
\dplinegray <i>N</i>	Drawing Objects	Value
\dplinehollow	Drawing Objects	Flag
\dplinepal	Drawing Objects	Flag
\dplinesolid	Drawing Objects	Flag
\dplinew <i>N</i>	Drawing Objects	Value
\dppolycount <i>N</i>	Drawing Objects	Value
\dppolygon	Drawing Objects	Flag
\dppolyline	Drawing Objects	Flag
\dpptxN	Drawing Objects	Value
\dpptyN	Drawing Objects	Value
\dprect	Drawing Objects	Flag
\dproundr	Drawing Objects	Flag
\dpshadow	Drawing Objects	Flag
\dpshadx <i>N</i>	Drawing Objects	Value
\dpshady <i>N</i>	Drawing Objects	Value
\dptxbtlr ⁹⁵	Drawing Objects	Flag
\dptxbx	Drawing Objects	Flag
\dptxbxmar <i>N</i>	Drawing Objects	Value
\dptxbxtext	Drawing Objects	Destination
\dptxlrtb ⁹⁵	Drawing Objects	Flag
\dptxlrtbv ⁹⁵	Drawing Objects	Flag
\dptxtbrl ⁹⁵	Drawing Objects	Flag
\dptxtbrlv ⁹⁵	Drawing Objects	Flag

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VidpxW Drawing Objects Value VdpxsizeV Drawing Objects Value VdpyW Drawing Objects Value VdpyW Drawing Objects Value VdpySizeV Drawing Objects Value VdropcaptW Positioned Objects and Frames Value VdxM Section Formatting Properties Value VdxMx Value Value Vedmins Wx Information Group Value Vembo Yx Information Group Value Vembo Yx Information Group Value Vembo Yx	Control word	Described in section	Туре
Vidy/W Drawing Objects Value VdpyszeW Drawing Objects Value VdropcapIIV Positioned Objects and Frames Value VdropcaptW Positioned Objects and Frames Value Vdx/repress Value Value Vdx/retxIV Positioned Objects and Frames Value Vdx/retxIV Positioned Objects and Frames Value Vdx/retxIV Value Value Vdx/retxIV Value Value Vdx/retxIV Value Value Vebcond 2007 Microsoft Office Outlook Destination Vebcotant 2007 Microsoft Office Outlook Destination Vebcotant 2007 Microsoft Office Outlook Destination Veledinins 877 Information Group Value Vemblo 97 Pictures Flag Vemblo 97 Pictures Flag Vemblip 97 Pictures Flag Vendads Special Characters Symbol Vendenble 87 Section Formatting Properties Flag Ven	\dpxN	<u>Drawing Objects</u>	Value
\(\text{AppsizeN}\) \times \text{Drawing Objects} \times \text{Value} \\ \text{AdropcaptIV}\) \times \text{Positioned Objects and Frames} \times \text{Value} \\ \text{AdropcaptV}\) \times \text{Positioned Objects and Frames} \times \text{Value} \\ \text{Valve}\) \times \text{Value} \\ \text{Value}\) \times \text{Value} \\ \text{Value}\) \times \text{Value} \\ \text{Value}\) \times \text{Value} \\ \text{Velocad \text{Volook}}\) \times \text{Value} \\ \text{Verboard \text{Volook}}\) \times \text{Value} \\ \text{Verminsof}\) \times \text{Value} \\ \text{Verminsof}\) \times \text{Value} \\ \text{Verminsof}\) \times Velocad \text{Velocad \text{V	\dpxsize/V	Drawing Objects	Value
Value Valu	\dpyN	Drawing Objects	Value
\(\text{\text{V}}\) \(\text{\text{V}}\) \(\text{\text{Positioned Objects and Frames}\) \(\text{Value}\) \(\text{\text{Value}}\) \(\text{\text{Value}}\	\dpysizeN	Drawing Objects	Value
\(\text{\sqrt{ds/\text{W}}\) \(\text{\sqrt{scatton}}\) \(\sqrt{s	\dropcapli <i>N</i>	Positioned Objects and Frames	Value
\text{VdyN} \text{V} \text{Positioned Objects and Frames} \text{Value}	\dropcaptN	Positioned Objects and Frames	Value
\(\frac{\text{\congruence}}{\congruence}\text{\congruence}}\text{\congruence}{\congruence}\te	\dsN	Section Formatting Properties	Value
Vebcend 2007 Microsoft Office Outlook Destination Vebcstart 2007 Microsoft Office Outlook Destination Vedmins N 87 Information Group Value Vembo 97 Font (Character) Formatting Properties Toggle Vemdash Special Characters Symbol Vemblip 97 Pictures Flag Vempace Special Characters Symbol Vendash Special Characters Symbol Vendash Special Characters Symbol Vendash Special Characters Symbol Vendash Special Characters Symbol Venddoc Document Formatting Properties Flag VendorceprotW Document Formatting Properties Flag VenforceprotW 2003 Document Formatting Properties Value VexpndW 87 Font (Character) Formatting Value VexpndW 87 Pont (Character) Formatting Value VexpndtwW Font (Character) Formatting Properties Flag Vfav Paragraph Formatting Properties Flag Vfac	\dxfrtext <i>N</i>	Positioned Objects and Frames	Value
Vebotsart 2007 Microsoft Office Outlook Destination VedminsN 87 Information Group Value Vembo 97 Font (Character) Formatting Properties Toggle Properties Vemdash Special Characters Symbol Vemfblip 97 Pictures Flag Vemspace Special Characters Symbol Vendash Special Characters Symbol Venddoc Document Formatting Properties Flag Venddoc Document Formatting Properties Flag Vendnhere 97 Section Formatting Properties Flag Vendnhere 87 Document Formatting Properties Flag Vendnotes 87 Document Formatting Properties Value Vendroceprotiv 2003 Document Formatting Properties Symbol Vexpolon 87 Font (Character) Formatting Properties Value Vexpolon 887 Font (Character) Formatting Properties Flag Vexpolon 897 Font (Character) Formatting Properties Flag Vigorities Flag Value Vigorities Paragraph Formatting Properties	\dyN ⁸⁷	Information Group	Value
Nembor Information Group Value Nembor Font (Character) Formatting Properties Toggle Nemdash Special Characters Symbol Nemfalip Pictures Flag Nemspace Special Characters Symbol Nendash Special Characters Symbol Nendash Special Characters Symbol Nendadoc Document Formatting Properties Flag Nendadoc Document Formatting Properties Flag Nendiner Piag Piag New Properties Piag Piag New Properties Piag Piag New Properties Piag Piag New Properties Piag Piag Name Properties Piag Piag Name Properties Piag Piag Name Properties Piag Piag	\ebcend ²⁰⁰⁷	Microsoft Office Outlook®	Destination
Font (Character) Formatting Properties	\ebcstart ²⁰⁰⁷	Microsoft Office Outlook	Destination
Properties	\edminsN 87	Information Group	Value
\mathrm{Pilip 97} \mathrm{Pictures} Flag \mathrm{Pilip 97} \mathrm{Special Characters} Symbol \mathrm{Pilip Properties} Flag \mathrm{Pilip Properties} Value \mathrm{Pilip Properties} Symbol \mathrm{Pilip Properties} Symbol \mathrm{Pilip Properties} Value \mathrm{Pilip Properties} Flag \mathrm{Pilip Properties} </td <td>\embo ⁹⁷</td> <td></td> <td>Toggle</td>	\embo ⁹⁷		Toggle
\empsace \text{\text{Personance}} \text{\text{\congruence}} \text{\congruence} \con	\emdash	Special Characters	Symbol
\endash \ Special Characters \ Symbol \ \ enddoc \ Document Formatting Properties \ Flag \ \ endnhere \ \ Flag \ Properties \ Flag \ Properties \ Flag \ Properties \ Plag \ Properties \ Properties \ Plag \ Properties \ Plag \ Properties \ Plag \ Properties \ Properties \ Plag \ Proper	\emfblip ⁹⁷	<u>Pictures</u>	Flag
\enddoc \ Document Formatting Properties Flag \ \endforce \ Plag \ Poetron \ Poetron \ Plag \ Poetron \ Po	\emspace	Special Characters	Symbol
\endnhere 87 \ Section Formatting Properties Flag \endnhere 87 \ Document Formatting Properties Flag \endnhere 87 \ Document Formatting Properties Flag \endnhere 87 \ Pag \endnhere 87 \ Document Formatting Properties \end Properti	\endash	Special Characters	Symbol
\endrotes \$^7 \ Document Formatting Properties Flag \endrotes Flag \ \endrotes \text{Properties} \ Pag \ \endrotes \ Pag \ Document Formatting Properties \ Pag \	\enddoc	Document Formatting Properties	Flag
\enforceprotN 2003	\endnhere ⁸⁷	Section Formatting Properties	Flag
\expndV 87 Special Characters Symbol \expndV 87 Pont (Character) Formatting Properties \expndtwN Font (Character) Formatting Properties \expndtwN Font (Character) Formatting Properties \expshrtn 97 Value \expshrtn 97 Document Formatting Properties \faq \fauto 97 Font (Character) Formatting Properties \faq \fauto 97 Paragraph Formatting Properties \faq \facenter 95 Flag \facenter 95 \facenter 95 Paragraph Formatting Properties \faq \factoidname 2007 \family SmartTag Data Destination \fafixed 95 \fatafixed 95 Paragraph Formatting Properties Flag \falg \falg \falg \fall \fall Paragraph Formatting Properties Flag \falg \	\endnotes ⁸⁷	Document Formatting Properties	Flag
\expndN 87	\enforceprotN ²⁰⁰³	Document Formatting Properties	Value
\text{Properties} \expndtwW \text{Font (Character) Formatting Properties} Flag \text{Value} \text{Properties} \text{Value} \text{Properties} \text{Properties} \text{Properties} \text{Fag} \text{Value} \text{Properties} \text{Fag} \text{Value} \text{Properties} \text{Fag} \text{Value} \text{Properties} \text{Fag} \text{Value} \text{Properties} \text{Flag} \text{Value} \text{Properties} \text{Flag} \text{Value} \text{Paragraph Formatting Properties} \text{Flag} \text{Vaccenter} \text{Paragraph Formatting Properties} \text{Flag} \text{Vaccoidname} \text{Paragraph Formatting Properties} \text{Flag} \text{Value}	\enspace	Special Characters	Symbol
\texpshrtn 97 \texpshrtn 901 \tex	\expndN ⁸⁷		Value
\fM ⁸⁷ \fM ⁸⁷ \fmodeling \frac{\text{Font (Character) Formatting Properties}}{\text{Properties}} \text{Flag} \text{\faauto } \footnote{97} \text{\faavaraph Formatting Properties}} \text{\faavaraph Flag} \text{\facenter } \footnote{95} \text{\faavaraph Formatting Properties}} \text{\faavaraph Flag} \text{\factoidname } \footnote{2007} \text{\faavaraph Formatting Properties}} \text{\faavaraph Flag} \text{\faavaraph Flag} \text{\faavaraph Flag} \text{\faavaraph Flag} \text{\faavaraph Flag} \faavara	\expndtwN		Value
\faauto 97 \text{Paragraph Formatting Properties} Flag \facenter 95 \facenter 95 \facenter 95 \facenter 96 \facenter 95 \facenter 97 \text{Paragraph Formatting Properties} Flag \facenter 987 \text{Pocument Formatting Properties} Flag \factoidname 2007 \text{SmartTag Data} Destination \fafixed 95 \text{Paragraph Formatting Properties} Flag \fahang 95 \text{Paragraph Formatting Properties} Flag \falt \fat Destination \faroman 95 \text{Paragraph Formatting Properties} Flag \favar 95 \text{Font Table} Value \fbidi	\expshrtn ⁹⁷	Document Formatting Properties	Flag
\facenter ⁹⁵ \facingp ⁸⁷ \Document Formatting Properties Flag \factoidname ²⁰⁰⁷ \SmartTag Data \Destination \fafixed ⁹⁵ \Paragraph Formatting Properties Flag \fahang ⁹⁵ \Paragraph Formatting Properties Flag \fald \falt Font Table \Paragraph Formatting Properties Flag \favar ⁹⁵ \Paragraph Formatting Properties Flag \fbias N ⁹⁷ \Pont Table \Font Table Font Table Flag	\f/V ⁸⁷		Value
\facingp ⁸⁷ \factoidname ²⁰⁰⁷ \factoidname ²⁰⁰⁷ \family SmartTag Data Destination \fafixed ⁹⁵ \family Paragraph Formatting Properties Flag \family Flag \family Flag \family Font Table \family Paragraph Formatting Properties Flag \favar ⁹⁵ \family Paragraph Formatting Properties Flag \favar ⁹⁵ \family Paragraph Formatting Properties Flag \favar ⁹⁵ \family Paragraph Formatting Properties Flag \family Flag	\faauto ⁹⁷	Paragraph Formatting Properties	Flag
\factoidname 2007 \factoidname 2007 \fafixed 95 \Paragraph Formatting Properties Flag \fahang 95 \fahang 95 \falt \fant Table \Paragraph Formatting Properties Flag \favar 95 \Paragraph Formatting Properties Flag \favar 95 \Paragraph Formatting Properties Flag \favar 95 \Paragraph Formatting Properties Flag \fbias N 97 \Font Table \Font Table Font Table Flag	\facenter ⁹⁵	Paragraph Formatting Properties	Flag
\fafixed ⁹⁵ \family	\facingp ⁸⁷	Document Formatting Properties	Flag
\fahang ⁹⁵ \fahang ⁹⁵ \falt \fant Table \text{Paragraph Formatting Properties}} \favar ⁹⁵ \favar ⁹⁵ \favar ⁹⁵ \favar ⁹⁵ \favar ⁹⁶ \fbidi \font Table \text{Font Table} \font Table \text{Font Table} \favar Font Table \text{Flag} \fint Table \text{Flag}	\factoidname ²⁰⁰⁷	SmartTag Data	Destination
\falt Font Table Destination \faroman 95 Paragraph Formatting Properties Flag \favar 95 Paragraph Formatting Properties Flag \fbias N 97 Font Table Value \fbidi Font Table Flag	\fafixed ⁹⁵	Paragraph Formatting Properties	Flag
\faroman ⁹⁵ \faroman ⁹⁵ \favar ⁹⁵ \favar ⁹⁵ \fbias N ⁹⁷ \fbidi \fbidi \frac{Font Table}{Font Table} \fbidi	\fahang ⁹⁵	Paragraph Formatting Properties	Flag
\favar ⁹⁵ Paragraph Formatting Properties Flag \fbias N ⁹⁷ Font Table Value \fbidi Font Table Flag	\falt	<u>Font Table</u>	Destination
\fbias N 97	\faroman ⁹⁵	Paragraph Formatting Properties	Flag
\fbidi Font Table Flag	\favar ⁹⁵	Paragraph Formatting Properties	Flag
· · · · · · · · · · · · · · · · · · ·	\fbiasN ⁹⁷	Font Table	Value
\fbidis	\fbidi	<u>Font Table</u>	Flag
		<u>Character Set</u>	Flag

Control word	Described in section	Туре
\fbimajor ²⁰⁰⁷	Theme Font Information	Flag
\fbiminor ²⁰⁰⁷	Theme Font Information	Flag
\fchars ⁹⁵	Document Formatting Properties	Destination
\fcharsetN	Font Table	Value
\fcsN	Associated Character Properties	Value
\fdbmajor ²⁰⁰⁷	Theme Font Information	Flag
\fdbminor 2007	Theme Font Information	Flag
\fdecor ⁸⁷	Font Table	Flag
\felnbrelev 2007	Document Formatting Properties	Flag
\fet/V	Document Formatting Properties	Value
\fetch	Font Table	Flag
\ffdefresN 97	Form Fields	Value
\ffdeftext ⁹⁷	Form Fields	Destination
\ffentrymcr 97	Form Fields	Destination
\ffexitmcr ⁹⁷	Form Fields	Destination
\ffformat ⁹⁷	Form Fields	Destination
\ffhaslistboxN ⁹⁷	Form Fields	Value
\ffhelptext ⁹⁷	Form Fields	Destination
\ffhpsN ⁹⁷	Form Fields	Value
\ffl ⁹⁷	Form Fields	Destination
\ffmaxlenN ⁹⁷	Form Fields	Value
\ffname ⁹⁷	Form Fields	Destination
\ffownhelpN ⁹⁷	Form Fields	Value
\ffownstat/V ⁹⁷	Form Fields	Value
\ffprotN ⁹⁷	Form Fields	Value
\ffrecalcN 97	Form Fields	Value
\ffresN ⁹⁷	Form Fields	Value
\ffsizeN ⁹⁷	Form Fields	Value
\ffstattext ⁹⁷	Form Fields	Destination
\fftypeN ⁹⁷	Form Fields	Value
\fftypetxtN ⁹⁷	Form Fields	Value
\fhimajor ²⁰⁰⁷	Theme Font Information	Flag
\fhiminor ²⁰⁰⁷	Theme Font Information	Flag
\fi <i>N</i> ⁸⁷	Paragraph Formatting Properties	Value
\fid <i>N</i>	File Table	Value
\field	Fields	Destination
\file	File Table	Destination
\filetbl	File Table	Destination
\fittextN ²⁰⁰⁰	Font (Character) Formatting Properties	Value
\fjgothic	Font Family	Flag

\fjminchou \fjminchou \fjminchou \fidalt \fields \fields \flag \flddirty \fields \flag \flddirty \flag \flddirty \fields \flag \fldfields \flag \fldfinst \fields \fleds \flag \fldfinst \flag \fldfilock \fields \flag \flag \fldpriv \fields \flag \flag \fldrslt \flag \flag \flomajor 2007 \flomajor 2007 \flomajor 2007 \flominor 2007 \flo	olete)
\fiddirty Fields Flag \fidedit Fields Flag \fidlinst Fields Destination \fidlock Fields Flag \fidly \fidly Fields Flag \fiddriv Fields Flag \fiddriv Fields Flag \fidrslt Fields Destination \fidtype 97 Fields Destination \fidtype 97 Fields Destination \fiding Destination \finominor 2007 Theme Font Information Flag \finominor 2007 Flag \finominor 1007 Flag \finomino	olete)
\fidedit Fields Flag \fidinst Fields Destination \fidlock Fields Flag \fidpriv Fields Flag \fiddriv Fields Flag \fidrslt Fields Destination \fidtype 97 Fields Destination \flomajor 2007 \flomajor 2007 \flominor 2007 \floridox 2007 \floridox 2007	olete)
\fldinst Fields Destination \fldlock Fields Flag \fldpriv Fields Flag \fldrslt Fields Destination \fldtype 97 Fields Destination \flomajor 2007 Theme Font Information Flag \flominor 2007 Theme Font Information Flag \fmodern 87 Font Table Flag \fm\text{Value}	olete)
\fidlock Fields Flag \fidpriv Fields Flag \fldrslt Fields Destination \fldtype 97 Fields Destination (obsolution) \flomajor 2007 \flomajor 2007 \flominor 2007 \flominor 2007 \flominor 5007 \flominor 50	olete)
\fidpriv \fields \fiel	olete)
\fldrslt Fields Destination \fldtype 97 Fields Destination (obsorbtionajor 2007 \flomajor 2007 Theme Font Information Flag \flominor 2007 Theme Font Information Flag \fmodern 87 Font Table Flag \fm\N Style Sheet Value	olete)
\fidtype 97 Fields Destination (obsolved) \filomajor 2007 Theme Font Information Flag \filominor 2007 Theme Font Information Flag \fmodern 87 Font Table Flag \fm\/ \fm\	olete)
\flomajor 2007	olete)
\flominor 2007 Theme Font Information Flag \fmodern 87 Font Table Flag \fm\N Style Sheet Value	
\fmodern 87 Font Table Flag \fn N Style Sheet Value	
\fnN \style Sheet \Value	
\fname ⁹⁵ Font Table Dectination	
maine <u>Fort Table</u> Destination	
\fnetwork File Table Flag	
\fnil ⁸⁷ Flag	
\fnonfilesys ²⁰⁰² Flag	
\fontemb Font Table Destination	
\fontfile Font Table Destination	
\fonttbl ⁸⁷	
\footer <u>Headers and Footers</u> Destination	
\footerf ⁸⁷ <u>Headers and Footers</u> Destination	
\footerl ⁸⁷ <u>Headers and Footers</u> Destination	
\footerr 87 <u>Headers and Footers</u> Destination	
\footeryN ⁸⁷ Section Formatting Properties Value	
\footnote Footnotes Destination	
\forceupgrade 2007 <u>Document Formatting Properties</u> Flag	
\formdisp \frac{Document Formatting Properties}{Document Formatting Properties} Flag	
\formfield ⁹⁷	
\formprot \frac{Document Formatting Properties}{Document Formatting Properties} Flag	
\formshade \textstyle	
\fosnum/V \file Table \text{Value}	
\fprqN \frac{Font Table}{} Value	
\fracwidth	
\frelativeN File Table Value	
\frmtxbtlr ⁹⁵ <u>Positioned Objects and Frames</u> Flag	
\frmtxlrtb ⁹⁵ <u>Positioned Objects and Frames</u> Flag	
\frmtxlrtbv ⁹⁵ <u>Positioned Objects and Frames</u> Flag	
\frmtxtbrl ⁹⁵	
\frmtxtbrlv ⁹⁵	
\froman ⁸⁷ Flag	

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Control word	Described in section	Туре
\fromhtmlN ⁹⁷	Document Formatting Properties	Value
\fromtext 97	Document Formatting Properties	Flag
\fsN ⁸⁷	Font (Character) Formatting Properties	Value
\fscript ⁸⁷	<u>Font Table</u>	Flag
\fswiss 87	Font Table	Flag
\ftech ⁸⁷	<u>Font Table</u>	Flag
\ftnalt	Document Formatting Properties	Flag
\ftnbj ⁸⁷	Document Formatting Properties	Flag
\ftncn ⁸⁷	Document Formatting Properties	Destination
\ftnil	<u>Font Table</u>	Flag
\ftnlytwnine 2000	Document Formatting Properties	Flag
\ftnnalc	Document Formatting Properties	Flag
\ftnnar	Document Formatting Properties	Flag
\ftnnauc	Document Formatting Properties	Flag
\ftnnchi	Document Formatting Properties	Flag
\ftnnchosung ⁹⁷	Document Formatting Properties	Flag
\ftnncnum ⁹⁷	Document Formatting Properties	Flag
\ftnndbar ⁹⁷	Document Formatting Properties	Flag
\ftnndbnum ⁹⁷	Document Formatting Properties	Flag
\ftnndbnumd ⁹⁷	Document Formatting Properties	Flag
\ftnndbnumk ⁹⁷	Document Formatting Properties	Flag
\ftnndbnumt ⁹⁷	Document Formatting Properties	Flag
\ftnnganada ⁹⁷	Document Formatting Properties	Flag
\ftnngbnum ⁹⁷	Document Formatting Properties	Flag
\ftnngbnumd ⁹⁷	Document Formatting Properties	Flag
\ftnngbnumk ⁹⁷	Document Formatting Properties	Flag
\ftnngbnuml ⁹⁷	Document Formatting Properties	Flag
\ftnnrlc	Document Formatting Properties	Flag
\ftnnruc	Document Formatting Properties	Flag
\ftnnzodiac ⁹⁷	Document Formatting Properties	Flag
\ftnnzodiacd ⁹⁷	Document Formatting Properties	Flag
\ftnnzodiacl ⁹⁷	Document Formatting Properties	Flag
\ftnrestart 87	Document Formatting Properties	Flag
\ftnrstcont	Document Formatting Properties	Flag
\ftnrstpg	Document Formatting Properties	Flag
\ftnsep ⁸⁷	Document Formatting Properties	Destination
\ftnsepc ⁸⁷	Document Formatting Properties	Destination
\ftnstartN ⁸⁷	Document Formatting Properties	Value
\ftntj ⁸⁷	Document Formatting Properties	Flag
\fttruetype	<u>Font Table</u>	Flag

Control word	Described in section	Туре
\fvaliddos	<u>File Table</u>	Flag
\fvalidhpfs	<u>File Table</u>	Flag
\fvalidmac	<u>File Table</u>	Flag
\fvalidntfs	<u>File Table</u>	Flag
\g ⁹⁷	East Asian Control Words	Destination
\gcwN ⁹⁷	East Asian Control Words	Value
\generator ²⁰⁰²	Generator	Destination
\greenN 87	Color Table	Value
\grfdoceventsN	Document Formatting Properties	Value
\gridtbl ⁹⁷	East Asian Control Words	Destination
\gutterN ⁸⁷	Document Formatting Properties	Value
\gutterprl ⁹⁵	Document Formatting Properties	Flag
\guttersxn <i>N</i>	Section Formatting Properties	Value
\header	Headers and Footers	Destination
\headerf 87	Headers and Footers	Destination
\headerl 87	Headers and Footers	Destination
\headerr ⁸⁷	Headers and Footers	Destination
\headeryN 87	Section Formatting Properties	Value
\hich 95	Associated Character Properties	Flag
\highlightN 95	<u>Highlighting</u>	Value
\hl	Drawing Object Properties	Destination
\hlfr ⁹⁷	Drawing Object Properties	Destination
\hlinkbase 97	Information Group	Destination
\hlloc ⁹⁷	Drawing Object Properties	Destination
\hlsrc ⁹⁷	Drawing Object Properties	Destination
\horzdoc ⁹⁵	Document Formatting Properties	Flag
\horzsect 95	Section Formatting Properties	Flag
\horzvertN ²⁰⁰⁰	New Asia Control Words Created by Word 2000	Value
\hrN ⁸⁷	Information Group	Value
\hres <i>N</i>	Hyphenation Information	Value
\hrule	Drawing Object Properties	Flag
\hsv ²⁰⁰⁷	Drawing Object Properties	Destination
\htmautsp ²⁰⁰⁰	Document Formatting Properties	Flag
\htmlbase	<u>Control Words Introduced by Other</u> <u>Microsoft Products</u>	Flag
\htmlrtf	<u>Control Words Introduced by Other</u> <u>Microsoft Products</u>	Toggle
\htmltag	Control Words Introduced by Other Microsoft Products	Destination
\hwelev ²⁰⁰⁷	Document Formatting Properties	Flag
\hyphauto	Document Formatting Properties	Toggle

Control word	Described in section	Туре
\hyphcaps	Document Formatting Properties	Toggle
\hyphconsec/V	Document Formatting Properties	Value
\hyphhotz <i>N</i>	Document Formatting Properties	Value
\hyphpar	Paragraph Formatting Properties	Toggle
\i ⁸⁷	Font (Character) Formatting Properties	Toggle
\id <i>N</i> ⁸⁷	Information Group	Value
\ignoremixedcontent/V ²⁰⁰⁷	Document Formatting Properties	Value
\ilfomacatclnup/V 2007	Document Formatting Properties	Value
\ilvIN ⁹⁷	Bullets and Numbering	Value
\impr ⁹⁷	<u>Character Text</u>	Toggle
\indmirror ²⁰⁰⁷	Paragraph Formatting Properties	Flag
\indrlsweleven 2007	Document Formatting Properties	Flag
\info	Information Group	Destination
\insrsidN ²⁰⁰²	Track Changes (Revision Marks)	Value
\intbl	Paragraph Formatting Properties	Flag
\ipgpN ²⁰⁰²	Paragraph Group Propreties	Value
\irowbandN ²⁰⁰²	<u>Table Definitions</u>	Value
\irow/V ²⁰⁰²	Table Definitions	Value
\itap <i>N</i> ²⁰⁰⁰	Paragraph Formatting Properties	Value
\ixe	Index Entries	Flag
\jcompress 95	Document Formatting Properties	Flag
\jexpand ⁹⁵	Document Formatting Properties	Flag
\jis	Font Family	Flag
\jpegblip ⁹⁷	Pictures	Flag
\jsksu ²⁰⁰⁰	Document Formatting Properties	Flag
\keep ⁸⁷	Paragraph Formatting Properties	Flag
\keepn ⁸⁷	Paragraph Formatting Properties	Flag
\kerningN	Font (Character) Formatting Properties	Value
\keycode	Style Sheet	Destination
\keywords ⁸⁷	Information Group	Destination
\krnprsnet ²⁰⁰⁷	Document Formatting Properties	Flag
\ksulangN ²⁰⁰⁰	Document Formatting Properties	Value
\jclisttab ⁹⁷	List Table	Flag
\landscape ⁸⁷	Document Formatting Properties	Flag
\lang <i>N</i>	Font (Character) Formatting Properties	Value
\langfeN ²⁰⁰⁰	Font (Character) Formatting Properties	Value
\langfenpN ²⁰⁰⁰	Font (Character) Formatting Properties	Value

Properties Vastrow 2002 Vatentstyles 2003 Vatentstyles 2003 Vatentstyles 2003 Vatentstyles 2003 Vary 2000 Special Characters Value V	Control word	Described in section	Туре
Natentstyles 2*** Style and Formatting Restrictions Destination	\langnpN ²⁰⁰⁰		Value
Norw 2000 Special Characters Value	\lastrow ²⁰⁰²	Table Definitions	Flag
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Viewelf/OllowN 97	\lchars ⁹⁵	Document Formatting Properties	Destination
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Neveljcn/V 2000 NevellegalW 97 List Table NevellegalW 97 List Table Nevelnfcn/V 97 List Table Nevelnfcn/V 2000 List Table Nevelncron 2000 List Table Nevelncrot 87 List Table NevelncestartW 97 List Table NevelncestartW 97 List Table Nevelndw 97 List Table Nevelndw 97 List Table Nevelndw 97 List Table Nevelnctron 2002 List Table Nevelpicturen 2002 List Table Nevelpicturenosize List Table Nevelpicturenosize List Table Nevelprevy 87 List Table Nevelprevy 87 List Table Nevelprevy 87 List Table Nevelprevy 97 List Table Nevelstartat 97 List Table Nevelstartat 97 List Table NeveltemplateidW 2000 Section Formatting Properties Nalue Nine 87 Special Characters Symbol Ninebetcol Section Formatting Properties Flag NinemodN 87 Section Formatting Properties Flag NinemodN 87 Section Formatting Properties Flag Ninempage 87 Section Formatting Properties Flag Ninerestart 87 Section Formatting Properties Flag Ninerestart 87 Section Formatting Properties Flag Ninestart 87 Section Formatting Properties Value Ninestart 87 Ninestart 87 Section Formatting Properties Flag Ninestart 87 Ninestart 87 Section Formatting Properties Value Ninestart 87 Ninestart 87 Nation 80 Section Formatting Properties Value Ninestart 87 Nation 80 Section Formatting Properties Val	\levelindentN 97	<u>List Table</u>	Value
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\levelspaceN 97 \levelstartatN 97 \levelstartatN 97 \levelstartatN 97 \levelstartatN 97 \levelstartatN 97 \levelstartatN 97 \levelstartatDe \leveltemplateidN 2000 \leveltext 97 \leveltext 90 \leveltext 90 \leveltext 97 \leveltext 90 \leveltext 90 \leveltext 90 \leveltext 90 \leveltext 90 \leveltext 90 \leveltext 97 \leveltext 90 \levelt	\levelprevN 97	<u>List Table</u>	Value
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\linkstyles		Section Formatting Properties	Value
\linkval ⁹⁵ Information Group Destination	\linkself	<u>Objects</u>	Flag
\linkval ⁹⁵ Information Group Destination		Document Formatting Properties	Flag
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	\lin\(\ \ ^2000 \)	Paragraph Formatting Properties	

Control word	Described in section	Туре	
\lisaN ²⁰⁰⁰	Paragraph Formatting Properties	Value	
\lisb <i>N</i> ²⁰⁰⁰	Paragraph Formatting Properties	Value	
\list ⁹⁷	<u>List Table</u>	Destination	
\listhybrid ²⁰⁰⁰	<u>List Table</u>	Flag	
\listidN ⁹⁷	<u>List Table</u>	Value	
\listlevel ⁹⁷	<u>List Table</u>	Destination	
\listname ⁹⁷	<u>List Table</u>	Destination	
\listoverride ⁹⁷	<u>List Table</u>	Destination	
\listoverridecountN 97	<u>List Table</u>	Value	
\listoverrideformatN 97	<u>List Table</u>	Value	
\listoverridestartat 97	<u>List Table</u>	Flag	
\listoverridetable 97	<u>List Table</u>	Destination	
\listpicture 2002	<u>List Table</u>	Destination	
\listrestarthdn <i>N</i> ⁹⁷	<u>List Table</u>	Value	
\listsimpleN ⁹⁷	<u>List Table</u>	Value	
\liststyleidN ²⁰⁰²	<u>List Table</u>	Value	
\liststylename ²⁰⁰²	<u>List Table</u>	Destination	
\listtable ⁹⁷	<u>List Table</u>	Destination	
\listtemplateid <i>N</i> ⁹⁷	<u>List Table</u>	Value	
\listtext 97	Bullets and Numbering	Destination	
\Inbrkrule ²⁰⁰⁰	Document Formatting Properties	Flag	
\Indscpsxn	Section Formatting Properties	Flag	
\Inongrid ⁹⁵	Document Formatting Properties	Flag	
\loch ⁹⁵	<u>Associated Character Properties</u>	Flag	
\lquote	Special Characters	Symbol	
\lsN ⁹⁷	<u>List Table</u>	Value	
\lsdlockedN ²⁰⁰⁷	Style and Formatting Restrictions	Value	
\lsdlockeddefN ²⁰⁰³	Style and Formatting Restrictions	Value	
\lsdlockedexcept ²⁰⁰³	Style and Formatting Restrictions	Destination	
\lsdpriorityN ²⁰⁰⁷	Style and Formatting Restrictions	Value	
\lsdprioritydef <i>N</i> ²⁰⁰⁷	Style and Formatting Restrictions	Value	
\lsdqformat/V ²⁰⁰⁷	Style and Formatting Restrictions	Value	
\lsdqformatdef/V ²⁰⁰⁷	Style and Formatting Restrictions	Value	
\lsdsemihidden <i>N</i> ²⁰⁰⁷	Style and Formatting Restrictions	Value	
\lsdsemihiddendef/V ²⁰⁰⁷	Style and Formatting Restrictions	Value	
\lsdstimaxN ²⁰⁰³	Style and Formatting Restrictions	Value	
\lsdunhideusedN ²⁰⁰⁷	Style and Formatting Restrictions	Value	
\lsdunhideuseddefN 2007	Style and Formatting Restrictions	Value	
\ltrch	Font (Character) Formatting Properties	Flag	
\ltrdoc	Document Formatting Properties	Flag	

Control word	Described in section	Туре
\ltrmark ²⁰⁰²	Special Characters	Symbol
\ltrpar	Paragraph Formatting Properties	Flag
\ltrrow	Table Definitions	Flag
\ltrsect	Section Formatting Properties	Flag
\lvltentative ²⁰⁰⁷	<u>List Levels</u>	Flag
\lytcalctblwd ²⁰⁰⁰	Document Formatting Properties	Flag
\lytexcttp ⁹⁷	Document Formatting Properties	Flag
\lytprtmet ⁹⁷	Document Formatting Properties	Flag
\lyttblrtgr ²⁰⁰⁰	Document Formatting Properties	Flag
\mac ⁸⁷	Character Set	Flag
\macc ²⁰⁰⁷	<u>Math</u>	Destination
\maccPr ²⁰⁰⁷	<u>Math</u>	Destination
\macpict ⁸⁷	<u>Pictures</u>	Flag
\mailmerge ²⁰⁰⁷	<u>Mail Merge</u>	Destination
\makebackup	Document Formatting Properties	Flag
\maln ²⁰⁰⁷	<u>Math</u>	Destination
\malnScr ²⁰⁰⁷	<u>Math</u>	Destination
\manager ⁹⁵	Information Group	Destination
\margbN ⁸⁷	Document Formatting Properties	Value
\margbsxn/V	Section Formatting Properties	Value
\margl <i>N</i> ⁸⁷	Document Formatting Properties	Value
\marglsxn <i>N</i>	Section Formatting Properties	Value
\margmirror	Document Formatting Properties	Flag
\margmirsxn	Section Formatting Properties	Flag
\margPr ²⁰⁰⁷	<u>Math</u>	Destination
\margrN ⁸⁷	Document Formatting Properties	Value
\margrsxn <i>N</i>	Section Formatting Properties	Value
\margSzN ²⁰⁰⁷	<u>Math</u>	Value
\margt/V ⁸⁷	Document Formatting Properties	Value
\margtsxn <i>N</i>	Section Formatting Properties	Value
\mbar ²⁰⁰⁷	<u>Math</u>	Destination
\mbarPr ²⁰⁰⁷	<u>Math</u>	Destination
\mbaseJc ²⁰⁰⁷	<u>Math</u>	Destination
\mbegChr ²⁰⁰⁷	<u>Math</u>	Destination
\mborderBox ²⁰⁰⁷	<u>Math</u>	Destination
\mborderBoxPr ²⁰⁰⁷	<u>Math</u>	Destination
\mbox ²⁰⁰⁷	<u>Math</u>	Destination
\mboxPr ²⁰⁰⁷	<u>Math</u>	Destination
\mbrk/V ²⁰⁰⁷	Math	Value
\mbrkBin <i>N</i> ²⁰⁰⁷	<u>Math</u>	Value
\mbrkBinSubN ²⁰⁰⁷	Math	Value

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Control word	Described in section	Туре	
\mcGp / \ ²⁰⁰⁷	<u>Math</u>	Value	-
\mcGpRuleN ²⁰⁰⁷	<u>Math</u>	Value	
\mchr ²⁰⁰⁷	<u>Math</u>	Destination	
\mcount ²⁰⁰⁷	<u>Math</u>	Destination	
\mcSpN ²⁰⁰⁷	<u>Math</u>	Value	
\mctrlPr ²⁰⁰⁷	<u>Math</u>	Destination	
\md ²⁰⁰⁷	<u>Math</u>	Destination	
\mdefJc <i>N</i> ²⁰⁰⁷	<u>Math</u>	Value	
\mdeg ²⁰⁰⁷	<u>Math</u>	Destination	
\mdegHide ²⁰⁰⁷	<u>Math</u>	Destination	
\mden ²⁰⁰⁷	<u>Math</u>	Destination	
\mdiff ²⁰⁰⁷	<u>Math</u>	Destination	
\mdiffStyN ²⁰⁰⁷	<u>Math</u>	Value	
\mdispdefN ²⁰⁰⁷	<u>Math</u>	Value	
\mdPr ²⁰⁰⁷	<u>Math</u>	Destination	
\me ^{2 007}	<u>Math</u>	Destination	
\mendChr ²⁰⁰⁷	<u>Math</u>	Destination	
\meqArr ²⁰⁰⁷	<u>Math</u>	Destination	
\meqArrPr ²⁰⁰⁷	<u>Math</u>	Destination	
\mf ²⁰⁰⁷	<u>Math</u>	Destination	
\mfName ²⁰⁰⁷	<u>Math</u>	Destination	
\mfPr ²⁰⁰⁷	<u>Math</u>	Destination	
\mfunc ²⁰⁰⁷	<u>Math</u>	Destination	
\mfuncPr ²⁰⁰⁷	<u>Math</u>	Destination	
\mgroupChr ²⁰⁰⁷	<u>Math</u>	Destination	
\mgroupChrPr ²⁰⁰⁷	<u>Math</u>	Destination	
\mgrow ²⁰⁰⁷	<u>Math</u>	Destination	
\mhideBot ²⁰⁰⁷	<u>Math</u>	Destination	
\mhideLeft ²⁰⁰⁷	<u>Math</u>	Destination	
\mhideRight ²⁰⁰⁷	<u>Math</u>	Destination	
\mhideTop ²⁰⁰⁷	<u>Math</u>	Destination	
\mhtmltag	Control Words Introduced by Other Microsoft Products	Destination	
\min/V	Information Group	Value	
\minterSpN ²⁰⁰⁷	<u>Math</u>	Value	
\mintLim/V ²⁰⁰⁷	<u>Math</u>	Value	
\mintraSpN ²⁰⁰⁷	<u>Math</u>	Value	
\mjc/V ²⁰⁰⁷	<u>Math</u>	Value	
\mlim ²⁰⁰⁷	<u> </u>	Destination	
\mlimloc ²⁰⁰⁷	Math	Destination	
\mlimlow ²⁰⁰⁷	Math	Destination	

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Vmlimpppr 2007 Math Destination Vmll 2007 Math Flag Vml 2007 Math Value Vmma 2007 Math Destination Vmmaddfieldname 2007 Math Destination Vmmath 2007 Math Value VmmathFontV 2007 Math Destination VmmathFor 2007 Math Destination Vmmather 2007 Math Destination Vmmather 2007 Math Destination Vmmather 2007 Math Destination Vmmcloackines 2007 Math Destination Vmmclo 2007 Math Destination Vmmclo 2007 Math Destination Vmmconnectstr Mall Merge Destination Vmmconnectstr ata 2007 Math Destination Vmmconnectstrata 2007 Math Destination Vmmconnectstrata 2007 Math Destination Vmmconnectstrata 2007 Mall Merge Destination Vmmconnectstrata 2007 Mall Merge Flag	\mlimlowPr ²⁰⁰⁷	<u>Math</u>	Destination	
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\mmmaintypecatalog ²⁰⁰⁷	Mail Merge	Flag
\mmmaintypeemail ²⁰⁰⁷	<u>Mail Merge</u>	Flag
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\mnary ²⁰⁰⁷	Math	Destination
\mnaryLimN ²⁰⁰⁷	Math	Value
\mnaryPr ²⁰⁰⁷	Math	Destination
\mnoBreak ²⁰⁰⁷	Math	Destination
\mnor ²⁰⁰⁷	Math	Flag
\mnum ²⁰⁰⁷	Math	Destination
\moN ⁸⁷	Information Group	Value
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\msPrePr 2007MathDestination\msSub 2007MathDestination\msSubPr 2007MathDestination\msSubSup 2007MathDestination\msSubSupPr 2007MathDestination\msSupPr 2007MathDestination\msSupPr 2007MathDestination\mstrikeBLTR 2007MathDestination\mstrikeH 2007MathDestination\mstrikeV 2007MathDestination\mstrikeV 2007MathDestination\mstyN 2007MathValue\msub 2007MathDestination\msub 2007MathDestination\msub 2007MathDestination\msub 2007MathDestination\msub 2007MathDestination\msub 2007MathDestination\msub 2007MathDestination\msub 2007MathDestination\msub 2007MathDestination\msub 2007MathDestination	\msmcap ⁹⁷	Document Formatting Properties	Flag
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	\mtransp ²⁰⁰⁷		Destination

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Control word	Described in section	Туре
\mtype ²⁰⁰⁷	<u>Math</u>	Destination
\muser	Document Formatting Properties	Flag
\mvauthN ²⁰⁰⁷	Character Revision Mark Properties	Value
\mvdateN ²⁰⁰⁷	Character Revision Mark Properties	Value
\mvertJc ²⁰⁰⁷	<u>Math</u>	Destination
\mvf ²⁰⁰⁷	Character Revision Mark Properties	Flag
\mvfmf ²⁰⁰⁷	Move Bookmarks	Destination
\mvfml ²⁰⁰⁷	Move Bookmarks	Destination
\mvt ²⁰⁰⁷	Character Revision Mark Properties	Flag
\mvtof ²⁰⁰⁷	Move Bookmarks	Destination
\mvtol ²⁰⁰⁷	Move Bookmarks	Destination
\mwrapIndent N ²⁰⁰⁷	<u>Math</u>	Value
\mwrapRight/V ²⁰⁰⁷	<u>Math</u>	Value
\mzeroAsc ²⁰⁰⁷	<u>Math</u>	Destination
\mzeroDesc ²⁰⁰⁷	<u>Math</u>	Destination
\mzeroWid ²⁰⁰⁷	<u>Math</u>	Destination
\nestcell ²⁰⁰⁰	Table Definitions	Symbol
\nestrow ²⁰⁰⁰	Table Definitions	Symbol
\nesttableprops ²⁰⁰⁰	Table Definitions	Destination
\newtblstyruls ²⁰⁰³	<u>Document Formatting Properties</u>	Flag
\nextfile	Document Formatting Properties	Destination
\noafcnsttbl ²⁰⁰⁷	Document Formatting Properties	Flag
\nobrkwrptbl ²⁰⁰²	Document Formatting Properties	Flag
\nocolbal	Document Formatting Properties	Flag
\nocompatoptions ²⁰⁰²	Document Formatting Properties	Flag
\nocwrap ⁹⁵	Paragraph Formatting Properties	Flag
\nocxsptable ²⁰⁰⁷	Document Formatting Properties	Flag
\noextrasprl	Document Formatting Properties	Flag
\nofchars N ⁸⁷	Information Group	Value
\nofcharswsN ⁹⁷	Information Group	Value
\nofeaturethrottle ²⁰⁰⁷	Document Formatting Properties	Flag
\nofpagesN ⁸⁷	Information Group	Value
\nofwords/V ⁸⁷	Information Group	Value
\nogrowautofit ²⁰⁰³	Document Formatting Properties	Flag
\noindnmbrts ²⁰⁰⁷	Document Formatting Properties	Flag
\nojkernpunct	Document Formatting Properties	Flag
\nolead ⁹⁷	Document Formatting Properties	Flag
\noline ⁸⁷	Paragraph Formatting Properties	Flag
\nolnhtadjtbl ²⁰⁰⁰	Document Formatting Properties	Flag
\nonesttables ²⁰⁰⁰	Table Definitions	Destination
\nonshppict ⁹⁷	<u>Pictures</u>	Flag

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Control word	Described in section	Туре
\nooverflow ⁹⁵	Paragraph Formatting Properties	Flag
\noproof ²⁰⁰⁰	Font (Character) Formatting Properties	Flag
\noqfpromote ²⁰⁰⁷	Quick Styles	Flag
\nosectexpand ⁹⁷	East Asian Control Words	Flag
\nosnaplinegrid 97	Paragraph Formatting Properties	Flag
\nospaceforul ⁹⁷	Document Formatting Properties	Flag
\nosupersub	Font (Character) Formatting Properties	Flag
\notabind	Document Formatting Properties	Flag
\notbrkcnstfrctbl ²⁰⁰⁷	Document Formatting Properties	Flag
\notcvasp ²⁰⁰⁷	Document Formatting Properties	Flag
\notvatxbx ²⁰⁰⁷	Document Formatting Properties	Flag
\nouicompat ²⁰⁰⁷	Document Formatting Properties	Flag
\noultrlspc ⁹⁷	Document Formatting Properties	Flag
\nowidctlpar	Paragraph Formatting Properties	Flag
\nowrap	Positioned Objects and Frames	Flag
\nowwrap ⁹⁵	Paragraph Formatting Properties	Flag
\noxlattoyen ⁹⁷	Document Formatting Properties	Flag
\objalias	<u>Objects</u>	Destination
\objalign N	<u>Objects</u>	Value
\objattph ⁹⁵	<u>Objects</u>	Flag
\objautlink	<u>Objects</u>	Flag
\objclass	<u>Objects</u>	Destination
\objcropbN	<u>Objects</u>	Value
\objcropl <i>N</i>	<u>Objects</u>	Value
\objcropr <i>N</i>	<u>Objects</u>	Value
\objcroptN	<u>Objects</u>	Value
\objdata	<u>Objects</u>	Destination
\object	<u>Objects</u>	Destination
\objemb	<u>Objects</u>	Flag
\objh <i>N</i>	<u>Objects</u>	Value
\objhtml ⁹⁷	<u>Objects</u>	Flag
\objicemb	<u>Objects</u>	Flag
\objlink	<u>Objects</u>	Flag
\objlock	<u>Objects</u>	Flag
\objname	<u>Objects</u>	Destination
\objocx ⁹⁷	<u>Objects</u>	Flag
\objpub	<u>Objects</u>	Flag
\objscalex/V	<u>Objects</u>	Value
\objscaley <i>N</i>	<u>Objects</u>	Value

Described in section	Туре
<u>Objects</u>	Destination
<u>Objects</u>	Flag
<u>Objects</u>	Flag
<u>Objects</u>	Destination
<u>Objects</u>	Value
<u>Objects</u>	Flag
<u>Objects</u>	Value
Document Formatting Properties	Value
Document Formatting Properties	Flag
Track Changes (Revision Marks)	Destination
Document Formatting Properties	Flag
Track Changes (Revision Marks)	Destination
Track Changes (Revision Marks)	Destination
Track Changes (Revision Marks)	Destination
<u>Objects</u>	Destination
Information Group	Destination
Document Formatting Properties	Flag
<u>Font (Character) Formatting</u> <u>Properties</u>	Toggle
Paragraph Formatting Properties	Value
Positioned Objects and Frames	Flag
Special Characters	Symbol
Paragraph Formatting Properties	Flag
Font Table	Destination
Document Formatting Properties	Value
Document Formatting Properties	Value
Special Characters	Symbol
Track Changes (Revision Marks)	Value
Paragraph Formatting Properties	Flag
Read-Only Password Protection	Destination
Read-Only Password Protection	Destination
<u>Character Set</u>	Flag
<u>Character Set</u>	Flag
<u>Document Formatting Properties</u>	Flag
Document Formatting Properties	Value
Document Formatting Properties	Flag
Document Formatting Properties	Flag
Document Formatting Properties	Flag
	Objects Document Formatting Properties Document Formatting Properties Track Changes (Revision Marks) Document Formatting Properties Track Changes (Revision Marks) Track Changes (Revision Marks) Track Changes (Revision Marks) Objects Information Group Document Formatting Properties Font (Character) Formatting Properties Paragraph Formatting Properties Positioned Objects and Frames Special Characters Paragraph Formatting Properties Font Table Document Formatting Properties Special Characters Track Changes (Revision Marks) Paragraph Formatting Properties Special Characters Track Changes (Revision Marks) Paragraph Formatting Properties Read-Only Password Protection Read-Only Password Protection Character Set Character Set Document Formatting Properties

Section Formattina Properties Flag Nganchosung 97 Section Formattina Properties Flag Ngancont Section Formattina Properties Flag Ngancont Section Formattina Properties Flag Ngandonum 98 Section Formattina Properties Flag Ngandonum 98 Section Formattina Properties Flag Ngandonum 99 Section Formattina Properties Flag Ngandonum 89 Section Formattina Properties Flag Ngangonum 80 Section Formattina Properties Flag Nganginindia 2002 Section Formattina Properties Flag Nganindia 2002 Section Formattina Properties Flag Ngancort 40 Section Formatti	Control word	Described in section	Туре
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\text{Npgndec} \(^{87}\) \text{Section Formatting Properties} \text{Flag} \text{Npgndecd} \(^{95}\) \text{Npgndecd} \(^{95}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnganada} \(^{97}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnghnum} \(^{97}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnghnum} \(^{97}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnghnum} \(^{97}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnghnuml} \(^{97}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnhindia} \(^{2002}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnhindib} \(^{2002}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnhindid} \(^{2002}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnhindid} \(^{2002}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnhindid} \(^{2002}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnhnsc} \text{Section Formatting Properties} \text{Flag} \text{Npgnhnsc} \text{Section Formatting Properties} \text{Flag} \text{Npgnhnsm} \text{Section Formatting Properties} \text{Flag} \text{Npgnhnsm} \text{Section Formatting Properties} \text{Flag} \text{Npgnhnsp} \text{Section Formatting Properties} \text{Flag} \text{Npgnhnsp} \text{Section Formatting Properties} \text{Flag} \text{Npgnid} \(^{2002}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnid} \(^{2002}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnctart \(^{87}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnstart \(^{87}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnthaib} \(^{2002}\) \text{Section Formatting Properties} \text{Flag} \text{Npgnuctra} \text{Section Formatting Properties} \text{Flag} \text{Npgnuctra} Section Form	\pgndbnumk ⁹⁷	Section Formatting Properties	Flag
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\pgnstart \(\text{N}^{87} \) \text{Document Formatting Properties} \text{Value} \\ \text{\pgnstarts \(\text{N} \) \text{Section Formatting Properties} \text{Value} \\ \text{\pgnthaia}^{2002} \text{Section Formatting Properties} \text{Flag} \\ \text{\pgnthaib}^{2002} \text{Section Formatting Properties} \text{Flag} \\ \text{\pgnucltr}^{87} \text{Section Formatting Properties} \text{Flag} \\ \text{\pgnucrm}^{87} \text{Section Formatting Properties} \text{Flag} \\ \text{\pgnvieta}^{2002} \text{Section Formatting Properties} \text{Flag} \\ \text{\pgnvieta}^{2002} \text{Section Formatting Properties} \text{Flag} \\ \text{\pgnvieta}^{87} \text{Section Formatting Properties} \text{Value} \\ \end{array}	\pgnlcrm ⁸⁷	Section Formatting Properties	Flag
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\pgnucltr ⁸⁷ \ Section Formatting Properties Flag \pgnucrm ⁸⁷ \ Section Formatting Properties Flag \pgnvieta ²⁰⁰² \ Section Formatting Properties Flag \pgnxN ⁸⁷ \ Section Formatting Properties Value	\pgnthaib ²⁰⁰²	Section Formatting Properties	Flag
\pgnucrm ⁸⁷ Section Formatting Properties Flag \pgnvieta ²⁰⁰² Section Formatting Properties Flag \pgnxN ⁸⁷ Section Formatting Properties Value	\pgnthaic ²⁰⁰²	Section Formatting Properties	Flag
\pgnvieta 2002 Section Formatting Properties Flag \pgnxN 87 Section Formatting Properties Value	\pgnucltr ⁸⁷	Section Formatting Properties	Flag
\pgnxN ⁸⁷ Section Formatting Properties Value	\pgnucrm ⁸⁷	Section Formatting Properties	Flag
	\pgnvieta ²⁰⁰²	Section Formatting Properties	Flag
\pgnyN ⁸⁷ <u>Section Formatting Properties</u> Value	\pgnxN ⁸⁷	Section Formatting Properties	Value
	\pgnyN ⁸⁷	Section Formatting Properties	Value

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Control word	Described in section	Туре
\pgnzodiac ⁹⁷	Section Formatting Properties	Flag
\pgnzodiacd ⁹⁷	Section Formatting Properties	Flag
\pgnzodiacl ⁹⁷	Section Formatting Properties	Flag
\pgp ²⁰⁰²	Paragraph Group Properties	Destination
\pgptbl ²⁰⁰²	Paragraph Group Properties	Destination
\pgwsxn N	Section Formatting Properties	Value
\phcol	Positioned Objects and Frames	Flag
\phmrg	Positioned Objects and Frames	Flag
\phpg	Positioned Objects and Frames	Flag
\picbmp	<u>Pictures</u>	Flag
\picbppN	<u>Pictures</u>	Value
\piccropbN	<u>Pictures</u>	Value
\piccroplN	<u>Pictures</u>	Value
\piccroprN	<u>Pictures</u>	Value
\piccroptN	<u>Pictures</u>	Value
\pichN ⁸⁷	<u>Pictures</u>	Value
\pichgoal <i>N</i>	<u>Pictures</u>	Value
\picprop ⁹⁷	<u>Pictures</u>	Destination
\picscaled ⁸⁷	<u>Pictures</u>	Flag
\picscalex <i>N</i>	<u>Pictures</u>	Value
\picscaleyN	<u>Pictures</u>	Value
\pict ⁸⁷	<u>Pictures</u>	Destination
\picw <i>N</i> ⁸⁷	<u>Pictures</u>	Value
\picwgoalN	<u>Pictures</u>	Value
\pindtabqc ²⁰⁰⁷	Absolute Position Tabs	Flag
\pindtabql ²⁰⁰⁷	Absolute Position Tabs	Flag
\pindtabqr ²⁰⁰⁷	Absolute Position Tabs	Flag
\plain ⁸⁷	Font (Character) Formatting Properties	Flag
\pmartabqc ²⁰⁰⁷	Absolute Position Tabs	Flag
\pmartabql ²⁰⁰⁷	Absolute Position Tabs	Flag
\pmartabqr ²⁰⁰⁷	Absolute Position Tabs	Flag
\pmmetafile <i>N</i>	<u>Pictures</u>	Value
\pn	Bullets and Numbering	Destination
\pnacross	Bullets and Numbering	Flag
\pnaiu ⁹⁵	Bullets and Numbering	Flag
\pnaiud ⁹⁵	Bullets and Numbering	Flag
\pnaiueo ⁹⁷	Bullets and Numbering	Flag
\pnaiueod ⁹⁷	Bullets and Numbering	Flag
\pnb	Bullets and Numbering	Toggle
\pnbidia ²⁰⁰⁰	Bullets and Numbering	Flag

Control word	Described in section	Туре
\pnbidib ²⁰⁰⁰	Bullets and Numbering	Flag
\pncaps	Bullets and Numbering	Toggle
\pncard	Bullets and Numbering	Flag
\pncf <i>N</i>	Bullets and Numbering	Value
\pnchosung ⁹⁷	Bullets and Numbering	Flag
\pncnum ⁹⁵	Bullets and Numbering	Flag
\pndbnum ⁹⁵	Bullets and Numbering	Flag
\pndbnumd ⁹⁷	Bullets and Numbering	Flag
\pndbnumk ⁹⁷	Bullets and Numbering	Flag
\pndbnuml ⁹⁷	Bullets and Numbering	Flag
\pndbnumt ⁹⁷	Bullets and Numbering	Flag
\pndec	Bullets and Numbering	Flag
\pndecd ⁹⁵	Bullets and Numbering	Flag
\pnf/V	Bullets and Numbering	Value
\pnfsN	Bullets and Numbering	Value
\pnganada ⁹⁷	Bullets and Numbering	Flag
\pngblip ⁹⁷	<u>Pictures</u>	Flag
\pngbnum ⁹⁷	Bullets and Numbering	Flag
\pngbnumd ⁹⁷	Bullets and Numbering	Flag
\pngbnumk ⁹⁷	Bullets and Numbering	Flag
\pngbnuml ⁹⁷	Bullets and Numbering	Flag
\pnhang	Bullets and Numbering	Flag
\pni	Bullets and Numbering	Toggle
\pnindent <i>N</i>	Bullets and Numbering	Value
\pniroha ⁹⁵	Bullets and Numbering	Flag
\pnirohad ⁹⁵	Bullets and Numbering	Flag
\pnlcltr	Bullets and Numbering	Flag
\pnlcrm	Bullets and Numbering	Flag
\pnlvl/V	Bullets and Numbering	Value
\pnlvlblt	Bullets and Numbering	Flag
\pnlvlbody	Bullets and Numbering	Flag
\pnlvlcont	Bullets and Numbering	Flag
\pnnumonce	Bullets and Numbering	Flag
\pnord	Bullets and Numbering	Flag
\pnordt	Bullets and Numbering	Flag
\pnprev	Bullets and Numbering	Flag
\pnqc	Bullets and Numbering	Flag
\pnql	Bullets and Numbering	Flag
\pnqr	Bullets and Numbering	Flag
\pnrauth/V ⁹⁷	Revision Marks for Paragraph Numbers and ListNum Fields	Value

Control word	Described in section	Туре
\pnrdateN ⁹⁷	Revision Marks for Paragraph Numbers and ListNum Fields	Value
\pnrestart	Bullets and Numbering	Flag
\pnrnfcN ⁹⁷	<u>Revision Marks for Paragraph</u> <u>Numbers and ListNum Fields</u>	Value
\pnrnot ⁹⁷	Revision Marks for Paragraph Numbers and ListNum Fields	Flag
\pnrpnbr/V ⁹⁷	Revision Marks for Paragraph Numbers and ListNum Fields	Value
\pnrrgbN ⁹⁷	Revision Marks for Paragraph Numbers and ListNum Fields	Value
\pnrstart/V ⁹⁷	Revision Marks for Paragraph Numbers and ListNum Fields	Value
\pnrstopN ⁹⁷	Revision Marks for Paragraph Numbers and ListNum Fields	Value
\pnrxst N ⁹⁷	Revision Marks for Paragraph Numbers and ListNum Fields	Value
\pnscaps	Bullets and Numbering	Toggle
\pnseclvl <i>N</i>	Section Formatting Properties	Destination and Value
\pnsp/V	Bullets and Numbering	Value
\pnstart/V	Bullets and Numbering	Value
\pnstrike	Bullets and Numbering	Toggle
\pntext	Bullets and Numbering	Destination
\pntxta	Bullets and Numbering	Destination
\pntxtb	Bullets and Numbering	Destination
\pnucltr	Bullets and Numbering	Flag
\pnucrm	Bullets and Numbering	Flag
\pnul	Bullets and Numbering	Toggle
\pnuld	Bullets and Numbering	Flag
\pnuldash ⁹⁵	Bullets and Numbering	Flag
\pnuldashd ⁹⁵	Bullets and Numbering	Flag
\pnuldashdd ⁹⁵	Bullets and Numbering	Flag
\pnuldb	Bullets and Numbering	Flag
\pnulhair ⁹⁵	Bullets and Numbering	Flag
\pnulnone	Bullets and Numbering	Flag
\pnulth ⁹⁵	Bullets and Numbering	Flag
\pnulw	Bullets and Numbering	Flag
\pnulwave ⁹⁵	Bullets and Numbering	Flag
\pnzodiac ⁹⁷	Bullets and Numbering	Flag
\pnzodiacd ⁹⁷	Bullets and Numbering	Flag
\pnzodiacl 97	Bullets and Numbering	Flag
\posnegxN	Positioned Objects and Frames	Value
\posnegyN	Positioned Objects and Frames	Value

Control word	Described in section	Туре
\posx <i>N</i>	Positioned Objects and Frames	Value
\posxc	Positioned Objects and Frames	Flag
\posxi	Positioned Objects and Frames	Flag
\posxl	Positioned Objects and Frames	Flag
\posxo	Positioned Objects and Frames	Flag
\posxr	Positioned Objects and Frames	Flag
\posyN	Positioned Objects and Frames	Value
\posyb	Positioned Objects and Frames	Flag
\posyc	Positioned Objects and Frames	Flag
\posyil	Positioned Objects and Frames	Flag
\posyin ⁹⁷	Positioned Objects and Frames	Flag
\posyout ⁹⁷	Positioned Objects and Frames	Flag
\posyt	Positioned Objects and Frames	Flag
\prauth <i>N</i>	Paragraph Formatting Properties	Value
\prcolbl	Document Formatting Properties	Flag
\prdate <i>N</i>	Paragraph Formatting Properties	Value
\printdata	Document Formatting Properties	Flag
\printim ⁸⁷	Information Group	Destination
\private ⁹⁷	Document Formatting Properties	Destination
\propname ⁹⁵	Information Group	Destination
\proptypeN ⁹⁵	Information Group	Value
\protect	Control Words Introduced by Other Microsoft Products	Toggle
\protend ²⁰⁰³	Protection Exceptions	Destination
\protlevelN ²⁰⁰³	Document Formatting Properties	Value
\protstart ²⁰⁰³	Protection Exceptions	Destination
\protusertbl ²⁰⁰³	<u>User Protection Information</u>	Destination
\psover	Document Formatting Properties	Flag
\pszN	Document Formatting Properties	Value
\ptabldot ²⁰⁰⁷	Absolute Position Tabs	Flag
\ptablmdot ²⁰⁰⁷	Absolute Position Tabs	Flag
\ptablminus ²⁰⁰⁷	Absolute Position Tabs	Flag
\ptablnone ²⁰⁰⁷	Absolute Position Tabs	Flag
\ptabluscore 2007	Absolute Position Tabs	Flag
\pubauto	<u>Macintosh Edition Manager Publisher</u> <u>Objects</u>	Flag
\pvmrg	Positioned Objects and Frames	Flag
\pvpara	Positioned Objects and Frames	Flag
\pvpg	Positioned Objects and Frames	Flag
\pwd <i>N</i>	Control Words Introduced by Other Microsoft Products	Value
\pxe ⁹⁵	Index Entries	Destination

\qd ⁹⁵	Paragraph Formatting Properties Paragraph Formatting Properties Paragraph Formatting Properties	Flag Flag Flag Value
\qj ⁸⁷	Paragraph Formatting Properties Paragraph Formatting Properties	Flag
	Paragraph Formatting Properties	
\qkN ²⁰⁰²		Value
	Paragraph Formatting Properties	
\ql ⁸⁷		Flag
\qmspace ⁹⁵	Special Characters	Symbol
\qr ⁸⁷	Paragraph Formatting Properties	Flag
\qt ²⁰⁰²	Paragraph Formatting Properties	Flag
\rawclbgdkbdiag ²⁰⁰²	<u> Table Definitions</u>	Flag
\rawclbgbdiag ²⁰⁰²	<u> Table Definitions</u>	Flag
\rawclbgcross ²⁰⁰²	<u> Table Definitions</u>	Flag
\rawclbgdcross ²⁰⁰²	<u> Table Definitions</u>	Flag
\rawclbgdkcross ²⁰⁰²	Table Definitions	Flag
\rawclbgdkdcross ²⁰⁰²	Table Definitions	Flag
\rawclbgdkfdiag ²⁰⁰²	Table Definitions	Flag
\rawclbgdkhor ²⁰⁰²	Table Definitions	Flag
\rawclbgdkvert ²⁰⁰²	Table Definitions	Flag
\rawclbgfdiag ²⁰⁰²	Table Definitions	Flag
\rawclbghoriz ²⁰⁰²	Table Definitions	Flag
\rawclbgvert ²⁰⁰²	<u> Table Definitions</u>	Flag
\rdblquote §	Special Characters	Symbol
\readonlyrecommended ²⁰⁰⁷	Document Formatting Properties	Flag
\readprot ²⁰⁰³	Document Formatting Properties	Flag
\redN ⁸⁷	Color Table	Value
\relyonvml/V ²⁰⁰⁷	Document Formatting Properties	Value
\remdttm ²⁰⁰⁷	Document Formatting Properties	Flag
\rempersonalinfo 2002	Document Formatting Properties	Flag
\result <u>C</u>	<u>Objects</u>	Destination
\revauthN <u>C</u>	Character Revision Mark Properties	Value
\revauthdelN 97	Character Revision Mark Properties	Value
\revbarN	Document Formatting Properties	Value
\revdttmN	Character Revision Mark Properties	Value
\revdttmdelN ⁹⁷	Character Revision Mark Properties	Value
\revised <u>C</u>	Character Revision Mark Properties	Toggle
\revisions <u> </u>	Document Formatting Properties	Flag
\revpropN	Document Formatting Properties	Value
\revprot <u></u>	Document Formatting Properties	Flag
\revtbl	<u> Frack Changes</u>	Destination
\revtim ⁸⁷	nformation Group	Destination
\ri <i>N</i> ⁸⁷	Paragraph Formatting Properties	Value
\rin N ²⁰⁰⁰	Paragraph Formatting Properties	Value

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Control word	Described in section	Туре
\row	Special Characters	Symbol
\rquote	Special Characters	Symbol
\rsidN ²⁰⁰²	Track Changes (Revision Marks)	Value
\rsidrootN ²⁰⁰²	Track Changes (Revision Marks)	Value
\rsidtbl ²⁰⁰²	Track Changes (Revision Marks)	Destination
\rsltbmp	<u>Objects</u>	Flag
\rslthtml ²⁰⁰⁰	<u>Objects</u>	Flag
\rsltmerge	<u>Objects</u>	Flag
\rsltpict	<u>Objects</u>	Flag
\rsltrtf	<u>Objects</u>	Flag
\rslttxt	<u>Objects</u>	Flag
\rtfN	RTF Version	Destination
\rtlch	<u>Font (Character) Formatting</u> <u>Properties</u>	Flag
\rtldoc	Document Formatting Properties	Flag
\rtlgutter ²⁰⁰⁰	Document Formatting Properties	Flag
\rtlmark ²⁰⁰²	Special Characters	Symbol
\rtlpar	Paragraph Formatting Properties	Flag
\rtIrow	Table Definitions	Flag
\rtlsect	Section Formatting Properties	Flag
\rxe	Index Entries	Destination
\sN ⁸⁷	Paragraph Formatting Properties	Value
\sa <i>N</i> ⁸⁷	Paragraph Formatting Properties	Value
\saautoN ²⁰⁰⁰	Paragraph Formatting Properties	Toggle
\saftnnalc ²⁰⁰²	Section Formatting Properties	Flag
\saftnnar ²⁰⁰²	Section Formatting Properties	Flag
\saftnnauc ²⁰⁰²	Section Formatting Properties	Flag
\saftnnchi ²⁰⁰²	Section Formatting Properties	Flag
\saftnnchosung ²⁰⁰²	Section Formatting Properties	Flag
\saftnncnum ²⁰⁰²	Section Formatting Properties	Flag
\saftnndbar ²⁰⁰²	Section Formatting Properties	Flag
\saftnndbnum ²⁰⁰²	Section Formatting Properties	Flag
\saftnndbnumd ²⁰⁰²	Section Formatting Properties	Flag
\saftnndbnumk ²⁰⁰²	Section Formatting Properties	Flag
\saftnndbnumt ²⁰⁰²	Section Formatting Properties	Flag
\saftnnganada ²⁰⁰²	Section Formatting Properties	Flag
\saftnngbnum ²⁰⁰²	Section Formatting Properties	Flag
\saftnngbnumd ²⁰⁰²	Section Formatting Properties	Flag
\saftnngbnumk ²⁰⁰²	Section Formatting Properties	Flag
\saftnngbnuml ²⁰⁰²	Section Formatting Properties	Flag
\saftnnrlc ²⁰⁰²		-

Sartinnruc 2002 Section Formatting Properties Flag	Control word	Described in section	Туре
Saftnnzodiac 2002 Section Formatting Properties Flag	\saftnnruc ²⁰⁰²	Section Formatting Properties	Flag
Saction Formatting Properties Flag	\saftnnzodiac ²⁰⁰²	Section Formatting Properties	Flag
Saftnrestart 2002 Section Formatting Properties Flag	\saftnnzodiacd ²⁰⁰²	Section Formatting Properties	Flag
Saction Formatting Properties Flag	\saftnnzodiacl ²⁰⁰²	Section Formatting Properties	Flag
Saction Formatting Properties Value	\saftnrestart ²⁰⁰²	Section Formatting Properties	Flag
\text{	\saftnrstcont ²⁰⁰²	Section Formatting Properties	Flag
\saveinvalidxml ²⁰⁰⁷ \ Document Formatting Properties Flag \ \saveprevpict ²⁰⁰⁷ \ Document Formatting Properties Flag \ \saveprevpict ²⁰⁰⁷ \ Paragraph Formatting Properties Value \sbasedonN ⁸⁷ \ Style Sheet Value \sbasedonN ⁸⁷ \ Section Formatting Properties Value \sbautoN ²⁰⁰⁰ \ Paragraph Formatting Properties Flag \sbkcol ⁸⁷ \ Section Formatting Properties Flag \sbkcol ⁸⁷ \ Section Formatting Properties Flag \sbkcol ⁸⁷ \ Section Formatting Properties Flag \sbkcod ⁸⁷ \ Paragraph Formatting Properties Flag \scap \ssc ⁸⁷ \ Paragraph Formatting Properties Flag \scap \scap \scap \square \scap \scap \square \scap \scap \square \square \scap \square \square \square \square	\saftnstartN ²⁰⁰²	Section Formatting Properties	Value
\Saveprevpict 2007 \text{Saveprevpict 2007} \text{Saveprevpict 2007} \text{Saveprevpict 2007} \text{Paragraph Formatting Properties} \text{Value} \t	\sautoupd ⁹⁷	Style Sheet	Flag
\(\scit \) \(sb\) \(\frac{87}{3}\) \(\scit \) \(sb\) \(sb\) \(scit \) \(scit	\saveinvalidxml ²⁰⁰⁷	Document Formatting Properties	Flag
\sbasedonN 87 \ \text{Sheet} \ \text{Value} \ \text{\sbautoN} \text{\soliton}	\saveprevpict ²⁰⁰⁷	Document Formatting Properties	Flag
\sbautoN 2000 \text{Paragraph Formatting Properties} Toggle \sbkcol 87 \text{Section Formatting Properties} Flag \sbkeven 87 \text{Section Formatting Properties} Flag \sbkeven 87 \text{Section Formatting Properties} Flag \sbkodd 87 \text{Section Formatting Properties} Flag \scaps 87 \text{Paragraph Formatting Properties} Flag \scaps 87 \text{Paragraph Formatting Properties} Flag \scaps 87 \text{Point (Character) Formatting Properties} Flag \scaps 87 \text{Point (Character) Formatting Properties} Flag \scaps 87 \text{Section Formatting Properties} Flag \scattage Section For	\sb N ⁸⁷	Paragraph Formatting Properties	Value
\sbkcol 87 \ Section Formatting Properties Flag \sbkeven 87 \ Section Formatting Properties Flag \sbknone 87 \ Section Formatting Properties Flag \sbknone 87 \ Section Formatting Properties Flag \sbknodd 87 \ Section Formatting Properties Flag \sbkodd 87 \ Section Formatting Properties Flag \sbknone 87 \ Section Formatting Properties Flag \sbknone 87 \ Section Formatting Properties Flag \sbknone 87 \ Paragraph Formatting Properties Flag \scaps 87 \ Paragraph Formatting Properties Flag \scaps 88 \ Font (Character) Formatting Properties \scompose 2000 Style Sheet Flag \sector Section Formatting Properties Flag \sector 87 \ Special Characters Symbol \sectin 89 \ Section Formatting Properties Flag \sectidefaultcl 97 \ Section Formatting Properties Flag \section Formatting Properties Value \secting exctually 897 Section Formatting Properties Value \secting exctually 897 Section Formatting Properties Value \secting exctually 8902 Track Changes (Revision Marks) Value \secting exctrsiod Value \secting exctrsiod Value \secting exctspecifycl 997 Section Formatting Properties Flag \sectspecifycl 997 Section Formatting Properties Flag \sectspecifycl 9902 Section Formatting Properties Flag \sectup Section Formatting Properties Flag \sectup Section Formatting Properties Flag \setting 10002 Section Formatting Properties Flag \sftnnar 10002 Section Formatt	\sbasedonN ⁸⁷	Style Sheet	Value
\text{	\sbautoN ²⁰⁰⁰	Paragraph Formatting Properties	Toggle
\sbknone 87 \ Section Formatting Properties Flag \\ \sbknode 87 \ Section Formatting Properties Flag \\ \sbkpage 87 \ Section Formatting Properties Flag \\ \sbkpage 87 \ Section Formatting Properties Flag \\ \scape 87 \ Paragraph Formatting Properties Flag \\ \scompose 2000 \ Style Sheet Flag \\ \sect 87 \ Special Characters Symbol \\ \sect 87 \ Special Characters Symbol \\ \sectd 87 \ Section Formatting Properties Flag \\ \sectdefaultcl 97 \ Section Formatting Properties Flag \\ \sectleset Expand N 97 \ Section Formatting Properties Value \\ \sectlinegrid N 97 \ Section Formatting Properties Value \\ \sectlinegrid Characters Symbol \\ \sectlinegrid N 2002 \ Track Changes (Revision Marks) Value \\ \sectspecifycl 97 \ Section Formatting Properties Flag \\ \sectspecifygen N \ Section Formatting Properties Flag \\ \sectspecifyl 97002 \ Section Formatting Properties Flag \\ \sectline Formatting Properties Flag \\ \sectline Formatting Properties Flag \\ \sectline Formatting Properties Flag \\ \sftnalc 2002 \ Section Formatting Properties Flag \\ \sftnalc 20	\sbkcol ⁸⁷	Section Formatting Properties	Flag
\sbkodd 87 \text{Section Formatting Properties} Flag \sbkpage 87 \text{Section Formatting Properties} Flag \sbys 87 \text{Paragraph Formatting Properties} Flag \scaps 87 \text{Font (Character) Formatting Properties} Flag \scaps 87 \text{Font (Character) Formatting Properties} Flag \scaps 87 \text{Font (Character) Formatting Properties} Flag \scompose 2000 \text{Style Sheet} Flag \scot Flag \sect 87 \text{Sect Margina Froperties} Flag \sect 887 \text{Sect Margina Froperties} Flag \sectd 87 \text{Section Formatting Properties} Flag \sectdefaultcl 97 \sectdefaultcl 97 \sectdefaultcl 97 \section Formatting Properties Flag \secting Formatting Properties Value \sectlinegrid/N 97 \section Formatting Properties Value \sectlinegrid/N 2002 \secting Flag \section Formatting Properties Flag \sectspecifycl 97 \sectspecifycl 97 \section Formatting Properties Flag \sectspecifygenN \sectspecifygenN \section Formatting Properties Flag \sectunlocked \section Formatting Properties Flag \settunlocked \section Formatting Properties Flag \settunlocked \section Formatting Properties Flag \seftunnac 2002 \section Formatting Properties Flag \settinnac 2002 \section Formatting Properties Flag \settinnacting Properties Flag \settinnaction 2002 \section Formatting Properties Flag \settin Flag \settin Flag	\sbkeven ⁸⁷	Section Formatting Properties	Flag
\sbkpage 87 \text{Section Formatting Properties} Flag \text{\sbkps 87} \text{Paragraph Formatting Properties} Flag \text{\scaps 87} \text{Font (Character) Formatting Properties} Flag \text{\scaps 87} \text{Font (Character) Formatting Properties} Flag \text{\scaps 87} \text{\scaps Flag} \text{\scaps 87} \text{\scaps 87} \text{\scaps Section Formatting Properties} Flag \text{\scaps 87} \text{\scaps 87} \text{\scaps 87} \text{\scaps Section Formatting Properties} Flag \text{\scaps 87} \text{\scaps Section Formatting Properties} Flag \text{\scaps 87} \text{\scaps Section Formatting Properties} Flag \text{\scaps 87} \text{\scaps 87} \text{\scaps 87} \text{\scaps Section Formatting Properties} Flag \text{\scaps 87} \	\sbknone ⁸⁷	Section Formatting Properties	Flag
\sbys 87 \text{Paragraph Formatting Properties} Flag \text{\scaps 67} \text{Font (Character) Formatting Properties} Flag \text{\scaps 67} \text{\scaps 67} \text{\scaps 67} \text{\scaps 67} \text{\scaps 67} \text{\scaps 67} \text{\scaps 687} \text	\sbkodd ⁸⁷	Section Formatting Properties	Flag
Sccaps 87 Font (Character) Formatting Properties	\sbkpage ⁸⁷	Section Formatting Properties	Flag
Style Sheet Flag	\sbys ⁸⁷	Paragraph Formatting Properties	Flag
\secV \ Information Group \ Value \ \sect 87 \ Special Characters \ Symbol \ \sectd 87 \ Section Formatting Properties \ Flag \ \sectdefaultcl 97 \ Section Formatting Properties \ Flag \ \sectexpandN 97 \ Section Formatting Properties \ Value \ \sectlinegridN 97 \ Section Formatting Properties \ Value \ \sectlinegridN 97 \ Section Formatting Properties \ Value \ \sectlinegridN \ \frac{2002}{2} \ Track Changes (Revision Marks) \ Value \ \sectsectspacifycl \ \frac{97}{2} \ Section Formatting Properties \ Flag \ \sectspecifygenN \ Section Formatting Properties \ Flag \ \sectspecifygenN \ Section Formatting Properties \ Flag \ \sectlinegridN \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sectlinegridN \ Section Formatting Properties \ Flag \ \sftnpij \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnalc \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnalc \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnalc \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnalc \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnalc \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnalc \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnalc \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnalc \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnalc \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnalc \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnchosung \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnchosung \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnchosung \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnchosung \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnchosung \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnchosung \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \sftnnchosung \ \frac{2002}{2} \ Section Formatting Properties \ Flag \ \end{2002} \ \end{2002} \ 2002	\scaps ⁸⁷		Toggle
\sect 87 \ Special Characters \ Symbol \\sectd 87 \ Section Formatting Properties \ Flag \\sectdefaultcl 97 \ Section Formatting Properties \ Flag \\sectdefaultcl 97 \ Section Formatting Properties \ Value \\sectlinegrid N 97 \ Section Formatting Properties \ Value \\sectlinegrid N 97 \ Section Formatting Properties \ Value \\sectlinegrid N 97 \ Section Formatting Properties \ Symbol \\sectrsid N \\ \frac{2002}{2} \ Track Changes (Revision Marks) \ Value \\sectsectspecifycl 97 \ Section Formatting Properties \ Flag \\sectspecifygen N \ Section Formatting Properties \ Flag \\sectlinegrid N \\sec	\scompose ²⁰⁰⁰	Style Sheet	Flag
\sectde 87 \ Section Formatting Properties Flag \ \sectdefaultcl 97 \ Section Formatting Properties Flag \ \sectexpand N 97 \ Section Formatting Properties Value \ \sectlinegrid N 97 \ Section Formatting Properties Value \ \sectlinegrid N 97 \ Section Formatting Properties Value \ \sectlinegrid N 97 \ Section Formatting Properties Value \ \sectric N 2002 \ Track Changes (Revision Marks) Value \ \sectspecifycl 97 \ Section Formatting Properties Flag \ \sectspecifygenN \ Section Formatting Properties Flag \ \sectspecifyl 97 \ Section Formatting Properties Flag \ \sectunlocked \ Section Formatting Properties Flag \ \settnoin 12002 \ Section Formatting Properties Flag \ \sftnnalc 2002 \ Section Formatting Properties Flag \ \sftnnar 2002 \ Section Formatting Properties Flag \ \sftnnchosung 2002 \ Section Formatting Properties Flag \ \sftnn	\secN	Information Group	Value
\sectdefaultcl 97 \sectdefault	\sect ⁸⁷	Special Characters	Symbol
\sectexpandN 97 \ Section Formatting Properties \ Value \ \sectlinegridN 97 \ Section Formatting Properties \ Value \ \sectnum \ Special Characters \ Symbol \ \sectrsidN 2002 \ Track Changes (Revision Marks) \ Value \ \sectspecifycl 97 \ Section Formatting Properties \ Flag \ \sectspecifygenN \ Section Formatting Properties \ Flag \ \sectspecifyl 97 \ Section Formatting Properties \ Flag \ \sectunlocked \ Section Formatting Properties \ Flag \ \sectunlocked \ Section Formatting Properties \ Flag \ \sftnbj 2002 \ Section Formatting Properties \ Flag \ \sftnnalc 2002 \ Section Formatting Properties \ Flag \ \sftnnar 2002 \ Section Formatting Properties \ Flag \ \sftnnauc 2002 \ Section Formatting Properties \ Flag \ \sftnnauc 2002 \ Section Formatting Properties \ Flag \ \sftnnauc 2002 \ Section Formatting Properties \ Flag \ \sftnnauc 2002 \ Section Formatting Properties \ Flag \ \sftnnauc 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ \sftnnchi 2002 \ Section Formatting Properties \ Flag \ Section	\sectd ⁸⁷	Section Formatting Properties	Flag
\sectlinegrid N 97 Section Formatting Properties Value	\sectdefaultcl ⁹⁷	Section Formatting Properties	Flag
\sectnum \ Special Characters \ Symbol \ \sectrsidN^{2002} \ Track Changes (Revision Marks) \ Value \ \sectspecifycl ⁹⁷ \ Section Formatting Properties \ Flag \ \sectspecifygenN \ Section Formatting Properties \ Flag \ \sectspecifyl ⁹⁷ \ Section Formatting Properties \ Flag \ \sectunlocked \ Section Formatting Properties \ Flag \ \sectunlocked \ Section Formatting Properties \ Flag \ \sftnnbj ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnalc ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnar ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnauc ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnauc ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnauc ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnchi ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnchi ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnchi ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnchi ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnchi ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnchi ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnchi ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnchi ²⁰⁰² \ Section Formatting Properties \ Flag \ \sftnnchi ²⁰⁰² \ Section Formatting Properties \ Flag \ Section Formatting Properties \ Section Formatting Properties \ Flag \ Section Formatting Properties \ Section Formatting Prope	\sectexpandN 97	Section Formatting Properties	Value
\sectrsidN 2002 \text{Track Changes (Revision Marks)} \text{Value} \\ \sectspecifycl 97 \text{Section Formatting Properties} \text{Flag} \\ \sectspecifygenN \text{Section Formatting Properties} \text{Flag} \\ \sectunlocked \text{Section Formatting Properties} \text{Flag} \\ \settunlocked \text{Section Formatting Properties} \text{Flag} \\ \sftnnalc \frac{2002}{2002} \text{Section Formatting Properties} \text{Flag} \\ \sftnnar \frac{2002}{2002} \text{Section Formatting Properties} \text{Flag} \\ \sftnnauc \frac{2002}{2002} \text{Section Formatting Properties} \text{Flag} \\ \sftnnauc \frac{2002}{2002} \text{Section Formatting Properties} \text{Flag} \\ \sftnnchi \text{Flag} \text{Section Formatting Properties} \text{Flag} \\ \sftnnchi \text{Flag} \text{Section Formatting Properties} \text{Flag} \\ \end{array}	\sectlinegridN 97	Section Formatting Properties	Value
\sectspecifycl ⁹⁷ \ Section Formatting Properties Flag \sectspecifygenN \ Section Formatting Properties Flag \sectspecifyl ⁹⁷ \ Section Formatting Properties Flag \sectunlocked \ Section Formatting Properties Flag \sftnbj ²⁰⁰² \ Section Formatting Properties Flag \sftnnalc ²⁰⁰² \ Section Formatting Properties Flag \sftnnar ²⁰⁰² \ Section Formatting Properties Flag \sftnnar ²⁰⁰² \ Section Formatting Properties Flag \sftnnauc ²⁰⁰² \ Section Formatting Properties Flag \sftnnauc ²⁰⁰² \ Section Formatting Properties Flag \sftnnchi ²⁰⁰² \ Section Formatting Properties Flag	\sectnum	Special Characters	Symbol
\sectspecifygenN \ Section Formatting Properties \ Flag \ \sectspecifyl \ \ \ Section Formatting Properties \ Flag \ \sectunlocked \ Section Formatting Properties \ Flag \ \sftnbj \ \ \ \ \ Section Formatting Properties \ Flag \ \sftnnalc \ \ \ \ \ Section Formatting Properties \ Flag \ \sftnnalc \ \ \ \ \ \ \ Section Formatting Properties \ Flag \ \sftnnar \ \ \ \ \ \ \ Section Formatting Properties \ Flag \ \sftnnar \ \ \ \ \ \ \ Section Formatting Properties \ Flag \ \sftnnauc \ \ \ \ \ \ \ \ \ Section Formatting Properties \ Flag \ \sftnnauc \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\sectrsidN ²⁰⁰²	Track Changes (Revision Marks)	Value
\sectspecifyl ⁹⁷ Section Formatting Properties Flag \sectunlocked Section Formatting Properties Flag \sftnbj ²⁰⁰² Section Formatting Properties Flag \sftnnalc ²⁰⁰² Section Formatting Properties Flag \sftnnar ²⁰⁰² Section Formatting Properties Flag \sftnnauc ²⁰⁰² Flag \sftnnauc ²⁰⁰² Section Formatting Properties Flag \sftnnchi ²⁰⁰² Section Formatting Properties Flag \sftnnchi ²⁰⁰² Flag \sftnnchi ²⁰⁰² Section Formatting Properties Flag \sftnnchosung ²⁰⁰² Section Formatting Properties Flag	\sectspecifycl ⁹⁷	Section Formatting Properties	Flag
\sectunlocked Section Formatting Properties Flag \sftnbj 2002 Section Formatting Properties Flag \sftnnalc 2002 Section Formatting Properties Flag \sftnnar 2002 Section Formatting Properties Flag \sftnnauc 2002 Flag \sftnnauc 2002 Flag \sftnnauc 2002 Flag \sftnnchi 2002 Section Formatting Properties Flag \sftnnchi 2002 Flag \sftnnchosung 2002 Section Formatting Properties Flag	\sectspecifygenN	Section Formatting Properties	Flag
\sftnbj 2002 Section Formatting Properties Flag \sftnnalc 2002 Section Formatting Properties Flag \sftnnar 2002 Section Formatting Properties Flag \sftnnauc 2002 Section Formatting Properties Flag \sftnnauc 2002 Section Formatting Properties Flag \sftnnchi 2002 Section Formatting Properties Flag \sftnnchosung 2002 Section Formatting Properties Flag	\sectspecifyl ⁹⁷	Section Formatting Properties	Flag
\sftnnalc 2002 Section Formatting Properties Flag \sftnnar 2002 Section Formatting Properties Flag \sftnnauc 2002 Flag \sftnnauc 2002 Flag \sftnnchi 2002 Section Formatting Properties Flag \sftnnchosung 2002 Section Formatting Properties Flag	\sectunlocked	Section Formatting Properties	Flag
\sftnnar 2002 Section Formatting Properties Flag \sftnnauc 2002 Section Formatting Properties Flag \sftnnchi 2002 Section Formatting Properties Flag \sftnnchi 2002 Flag \sftnnchosung 2002 Section Formatting Properties Flag	\sftnbj ²⁰⁰²	Section Formatting Properties	Flag
\sftnnauc 2002 Section Formatting Properties Flag \sftnnchi 2002 Section Formatting Properties Flag \sftnnchosung 2002 Flag	\sftnnalc ²⁰⁰²	Section Formatting Properties	Flag
\sftnnchi ²⁰⁰² Section Formatting Properties Flag \sftnnchosung ²⁰⁰² Section Formatting Properties Flag	\sftnnar ²⁰⁰²	Section Formatting Properties	Flag
\sftnnchosung ²⁰⁰² Section Formatting Properties Flag	\sftnnauc ²⁰⁰²	Section Formatting Properties	Flag
	\sftnnchi ²⁰⁰²	Section Formatting Properties	Flag
\sftnncnum ²⁰⁰² <u>Section Formatting Properties</u> Flag	\sftnnchosung ²⁰⁰²	Section Formatting Properties	Flag
	\sftnncnum ²⁰⁰²	Section Formatting Properties	Flag

Control word	Described in section	Туре
\sftnndbar ²⁰⁰²	Section Formatting Properties	Flag
\sftnndbnum ²⁰⁰²	Section Formatting Properties	Flag
\sftnndbnumd ²⁰⁰²	Section Formatting Properties	Flag
\sftnndbnumk ²⁰⁰²	Section Formatting Properties	Flag
\sftnndbnumt ²⁰⁰²	Section Formatting Properties	Flag
\sftnnganada ²⁰⁰²	Section Formatting Properties	Flag
\sftnngbnum ²⁰⁰²	Section Formatting Properties	Flag
\sftnngbnumd ²⁰⁰²	Section Formatting Properties	Flag
\sftnngbnumk ²⁰⁰²	Section Formatting Properties	Flag
\sftnngbnuml ²⁰⁰²	Section Formatting Properties	Flag
\sftnnrlc ²⁰⁰²	Section Formatting Properties	Flag
\sftnnruc ²⁰⁰²	Section Formatting Properties	Flag
\sftnnzodiac ²⁰⁰²	Section Formatting Properties	Flag
\sftnnzodiacd ²⁰⁰²	Section Formatting Properties	Flag
\sftnnzodiacl ²⁰⁰²	Section Formatting Properties	Flag
\sftnrestart ²⁰⁰²	Section Formatting Properties	Flag
\sftnrstcont ²⁰⁰²	Section Formatting Properties	Flag
\sftnrstpg ²⁰⁰²	Section Formatting Properties	Flag
\sftnstartN ²⁰⁰²	Section Formatting Properties	Value
\sftntj ²⁰⁰²	Section Formatting Properties	Flag
\shad ⁸⁷	Font (Character) Formatting Properties	Toggle
\shadingN	Paragraph Shading	Value
\shidden ⁹⁷	Style Sheet	Flag
\shift	Style Sheet	Flag
\showplaceholdtextN ²⁰⁰⁷	Document Formatting Properties	Value
\showxmlerrorsN ²⁰⁰⁷	Document Formatting Properties	Value
\shp ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Destination
\shpbottomN ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Value
\shpbxcolumn ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Flag
\shpbxignore ²⁰⁰⁰	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Flag
\shpbxmargin ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Flag
\shpbxpage ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Flag
\shpbyignore ²⁰⁰⁰	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Flag
\shpbymargin ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Flag
\shpbypage ⁹⁷	Word 97 through Word 2003 RTF for	Flag

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Control word	Described in section	Туре
	<u>Drawing Objects (Shapes)</u>	
\shpbypara ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Flag
\shpfblwtxtN ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Value
\shpfhdrN ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Value
\shpgrp ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Destination
\shpinst ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Destination
\shpleftN ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Value
\shplidN ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Value
\shplockanchor ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Flag
\shppict ⁹⁷	<u>Pictures</u>	Destination
\shpright N ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Value
\shprslt ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Destination
\shptopN ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Value
\shptxt ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Destination
\shpwrk N ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Value
\shpwrN ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Value
\shpzN ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Value
\siN ⁸⁷	Paragraph Formatting Properties	Value
\slinkN ²⁰⁰²	Style Sheet	Value
\slmult <i>N</i>	Paragraph Formatting Properties	Value
\slocked ²⁰⁰³	Style Sheet	Flag
\sn ⁹⁷	Word 97 through Word 2003 RTF for Drawing Objects (Shapes)	Destination
\snaptogridincell ²⁰⁰²	Document Formatting Properties	Flag
\snextN ⁸⁷	Style Sheet	Value
\softcol	Special Characters	Flag
\softlheight <i>N</i>	Special Characters	Value
\softline	Special Characters	Flag
\softpage	Special Characters	Flag
\sp ⁹⁷	Word 97 through Word 2003 RTF for <u>Drawing Objects (Shapes)</u>	Destination

Spersonal Page Style Sheet Flag Spersonal Page Spersonal S	Control word	Described in section	Туре
Splytwinine 2000 Document Formatting Properties Flag	\spersonal ²⁰⁰⁰	Style Sheet	Flag
SpriorityN 7007 Style Sheet Value	\spltpgpar ²⁰⁰⁷	Document Formatting Properties	Flag
\sprshsp \(\frac{9}{2} \) \sprshsp \(\frac{9}{2} \) \sprshsp \(\frac{9}{2} \) \sprshsp \(\frac{9}{2} \) \sprshp \(\fr	\splytwnine ²⁰⁰⁰	Document Formatting Properties	Flag
\sprsinsp \frac{5}{2}	\spriorityN ²⁰⁰⁷	Style Sheet	Value
\spreaches \ Spreaches Page	\sprsbsp ⁹⁷	Document Formatting Properties	Flag
\sprstsm ⁹⁷ \ Document Formatting Properties Flag \ \sprstsp \ Document Formatting Properties Flag \ \sprstsp \ Document Formatting Properties Flag \ \sprstsp \ Z002 \ Paragraph Formatting Properties Flag \ \sqramat \ Z007 \ Style Sheet Flag \ \ssemihidden \ Z000 \ Style Sheet Flag \ \ssemihidden \ Z000 \ Style Sheet Flag \ \ssemihidden \ Z000 \ Style Sheet Value \ \striked \ Z000 \ Z000 \ Style Sheet Value \ \striked \ Z000 \ Z00	\sprsInsp ⁹⁵	Document Formatting Properties	Flag
\sprstsp Document Formatting Properties Flag \spr^20022 Paragraph Formatting Properties Flag \sqrformat 2007 Style Sheet Flag \srauth/W Section Formatting Properties Value \sraphy 2000 Style Sheet Flag \ssemihiddenN 2002 Style Sheet Value \stextform \text{Value} Value \stextform \text{Value} Destination \stextflowN 37 Section Text Value \stextflowN 37 Section Text Value \strike 87 Font (Character) Formatting Toggle \strike 89 Properties Toggle \strike 80 Properties Value \strike 80 Pefault Fonts Value \strike 80 Default Fonts Value \stshfloch 7002 Default Fonts Value \stshfloch 7002 Default Fonts Value \stylelock 2003 Document Formatting Properties Flag \stylelock pote 2003 Document Formatting Properties Flag \stylelo	\sprsspbf	Document Formatting Properties	Flag
Spy 2002 Paragraph Formatting Properties Flag	\sprstsm ⁹⁷	Document Formatting Properties	Flag
\text{\squares} \squares	\sprstsp	Document Formatting Properties	Flag
\srauthN Section Formatting Properties Value \sraphy 2000 Style Sheet Flag \ssemihiddenN 2002 Style Sheet Value \staticval 95 Information Group Destination \stextflowN 97 Destination \stextflowN 2002 Section Text Value \starkle 87 Font (Character) Formatting Properties \stshflbchN 2002 Default Fonts Value \stshflbchN 2002 Default Fonts Formatting Properties Flag \stylelock 2003 Document Formatting Properties Flag \stylelock 2003 Document Formatting Properties Flag \stylelockenforced 2000 Document Formatting Properties Flag \stylelockenforced 2000 Document Formatting Properties Flag \stylesortmethod(N 2007 Document Formatting Properties Value \stylesortmethod(N 2007 Document Formatting Properties Value \stylesortmethod(N 2007 Document Formatting Properties Value \subfont Style Sheet Value \subfont (Character) Formatting Properties Flag \subfont (Character) Formatting Properties Flag \subfont (Character) Formatting Froperties Flag \subfont (Character) Formatting Froperties Flag \subfont (Character) Formatting Flag Froperties Value \subfont (Character) Formattin	\spv ²⁰⁰²	Paragraph Formatting Properties	Flag
\srdateN \ Section Formatting Properties \ Value \ \sreply \frac{2000}{2000} \ Style Sheet \ Flag \ \ssemihiddenN \frac{2002}{2002} \ Style Sheet \ Value \ \staticval \frac{95}{2000} \ Style Sheet \ Value \ \staticval \frac{95}{2000} \ Destination \ \stextflowN \frac{97}{2000} \ Section Text \ Value \ \stextflowN \frac{97}{2000} \ Section Text \ Value \ \striked \frac{97}{2000} \ Properties \ Properties \ Properties \ Value \ \striked \frac{97}{2000} \ Default Fonts \ Value \ \stshfibN \frac{2002}{2000} \ Default Fonts \ Value \ \stshfibchN \frac{2002}{2000} \ Default Fonts \ Value \ \stshfibchN \frac{2002}{2000} \ Default Fonts \ Value \ \stshfibchN \frac{2002}{2000} \ Default Fonts \ Value \ \stylelock \frac{2003}{2003} \ Document Formatting Properties \ Flag \ \stylelock \frac{2003}{2003} \ Document Formatting Properties \ Flag \ \stylelock \frac{2007}{2003} \ Document Formatting Properties \ Flag \ \stylelock \frac{2007}{2000} \ Document Formatting Properties \ Flag \ \stylelock \frac{2007}{2000} \ Document Formatting Properties \ Flag \ \stylelock \frac{97}{2000} \ Document Formatting Properties \ Flag \ \stylesothenet \frac{97}{2000} \ Document Formatting Properties \ Flag \ \stylesothenet \frac{97}{2000} \ Document Formatting Properties \ Value \ \stylesothenet \frac{97}{2000} \ Document Formatting Properties \ Value \ \stylesothenet \frac{97}{2000} \ Document Formatting Properties \ Value \ \subdocument \frac{97}{2000} \ Document Formatting Properties \ Value \ \subdocument \frac{97}{2000} \ Document Formatting Properties \ Value \ \subdocument \frac{97}{2000} \ Document Formatting Properties \ Value \ \subdocument \frac{97}{2000} \ Document Formatting Properties \ Value \ \subdocument \frac{97}{2000} \ Document Formatting Properties \ Value \ \subdocument \frac{97}{2000} \ Document Formatting Properties \ Flag \ \subdocument \frac{97}{2000} \ Document Formatting Properties \ Flag \ \subdocument \frac{97}{2000} \ Document Formatting Properties \ Plag \ \subdocument \frac{97}{2000} \ Document Formatting	\sqformat ²⁰⁰⁷	Style Sheet	Flag
\sreply 2000 \ssemihiddenN 2002 \ssemihiddenN 2002 \staticval 95 \Information Group \Section Text \Value \staticval 97 \Section Text \Value \staticval 97 \Section Text \Value \strike 87 \Section Text \Value \striked 1 97 \Section Text \Toggle \striked 1 97 \Section 1 9002 \Section 1 90	\srauthN	Section Formatting Properties	Value
\ssemihiddenN 2002 \Style Sheet \Value \\ \staticval 95 \Information Group \Destination \\ \stextflowN 97 \Section Text \Value \\ \strike 87 \Fightarrow Font (Character) Formatting \text{Properties} \\ \striked 197 \Character Text \Toggle \\ \striked 197 \Destination \Destination \\ \striked 197 \Destination \Destination \Destination \\ \striked 197 \Destination \Destination \Default Fonts \Value \\ \striked 1902 \Default Fonts \Value \\ \striked 1903 \Default Fonts \Value \\ \striked 1903 \Default Fonts \Value \\ \striked 1903 \Decument Formatting Properties \Fiag \\ \strylelock 2003 \Decument Formatting Properties \Fiag \\ \strylelock 2003 \Decument Formatting Properties \Fiag \\ \strylelock 1903 \Decument Formatting Properties \Fiag \\ \strylelock 1903 \Decument Formatting Properties \Fiag \\ \strylelock 1904 \Decument 1907 \Decument Formatting Properties \Fiag \\ \stryles 1904 \Decument 1902 \Decument 1904 \Decument	\srdateN	Section Formatting Properties	Value
\ssemihidden\()^2002 \text{Style Sheet} \text{Value} \text{Staticval}^{95} \text{Information Group} \text{Destination} \text{Value} \text{Value} \text{Value} \text{Value} \text{Value} \text{Value} \text{Value} \q	\sreply ²⁰⁰⁰	Style Sheet	Flag
\stextflowN 97 \ Section Text \ Value \ \strike 87 \ Font \(Character\) Formatting Properties \striked1 97 \ Character Text \ Toggle \stshfbiN 2002 \ Default Fonts \ Value \stshfbiN 2002 \ Default Fonts \ Value \stshfbichN 2002 \ Default Fonts \ Value \stylelock 2003 \ Document Formatting Properties \ Flag \stylelockbackcomp 2003 \ Document Formatting Properties \ Flag \stylelockparting Properties \ Value \stylesortmethodN 2007 \ Document Formatting Properties \ Value \stylesortmethodN 2007 \ Document Formatting Properties \ Value \stylesortmethodN 2002 \ Style Sheet \ Value \subfontbysize 95 \ Document Formatting Properties \ Value \subfontbysize 95 \ Document Formatting Properties \ Value \subfontbysize 95 \ Document Formatting Properties \ Flag \subfontbysize 95 \ Document Formatting Properties \ Flag \subfontbysize 95 \ Document Formatting Properties \ Value \ Document Formatting Properties \ Value \ Document Formatting Pr	\ssemihiddenN ²⁰⁰²	Style Sheet	Value
\strike 67 \text{Font (Character) Formatting Properties} \text{Striked1 97} \text{Striked1 97} \text{Stshfbi/V 2002} \text{Default Fonts} \text{Default Fonts} \text{Value} \text{Stshfbi/V 2002} \text{Default Fonts} \text{Value} \text{\text{Stshfbi/N 2002}} \text{\text{Stshfbi-ChV 2002}} \text{Default Fonts} \text{Value} \text{\text{Value}} \text{\text{Stshfbi-ChV 2002}} \text{Default Fonts} \text{Value} \text{\text{Value}} \text{\text{Stshfbi-ChV 2002}} \text{Default Fonts} \text{Value} \text{\text{Value}} \text{\text{Stylelock 2003}} \text{Document Formatting Properties} \text{Flag} \text{Stylelockaccomp 2003} \text{Document Formatting Properties} \text{Flag} \text{Stylelockaffset 2007} \text{Document Formatting Properties} \text{Flag} \text{Stylelocktheme 2007} \text{Document Formatting Properties} \text{Flag} \text{Style Sheet} \text{Document Formatting Properties} \text{Value} \text{\text{\text{Value}}} \text{\text{Value}} \text{\text{Value}} \text{\text{Style Sheet}} \text{Value} \text{\text{Value}} \text{\text{SubdocumentV}} \text{\text{Paragraph Formatting Properties}} \text{Value} \text{\text{Value}} \text{Value}	\staticval ⁹⁵	Information Group	Destination
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\stshfbiN 2002 \ Default Fonts \ Value \ \stshfbiN 2002 \ Default Fonts \ Value \ \stshfbichN 2003 \ Document Formatting Properties \ Flag \ \stylelock 2003 \ Document Formatting Properties \ Flag \ \stylelockbackcomp 2003 \ Document Formatting Properties \ Flag \ \stylelockqfset 2007 \ Document Formatting Properties \ Flag \ \stylelockqfset 2007 \ Document Formatting Properties \ Flag \ \stylelocktheme 2007 \ Document Formatting Properties \ Flag \ \stylesheet 87 \ Style Sheet \ Destination \ \stylesortmethodN 2007 \ Document Formatting Properties \ Value \ \styrisidN 2002 \ Style Sheet \ Value \ \sub \ Font (Character) Formatting Properties \ Value \ \subfontbysize 95 \ Document Formatting Properties \ Flag \ \subfontbysize 187 \ Document Formatting Properties \ Flag \ \subfontbysize 187 \ Document Formatting Properties \ Value \ \subfontbysize 187 \ Document Formatting Properties \ Flag \ \subfontbysize 187 \ Document Formatting Properties \ Flag \ \subfontbysize 187 \ Document Formatting Properties \ Flag \ \subfontbysize 187 \ Document Formatting Properties \ Flag \ \subfontbysize 187 \ Document Formatting Properties \ Value \ \subfontbysize 187 \ Document Formatting Properties \ Flag \ \subfontbysize 180 \ Document Formatting Properties \ Value \ \subfontbysize 180 \ Document Formatting Properties \ Value \ \subfontbysize 180 \ Document Formatting Properties \ Value \ \subfontbysize 180 \ Document Formatting Properties \ Value \ \subfontbysize 180 \ Document Formatting Properties \ Value \ \subfontbysize 180 \ Document Formatting Properties \ Value \ \subfontbysize 180 \ Document Formatting Properties \ Value \ \subfontbysize 180 \ Document Formatting Properties \ Value \ \subfontbysize 180 \ Document Formatting Properties \ Value \ \subfontbysize 180 \ Document Formatting Properties \ Value \ \subfontbysize 180 \ Document Formatting Properties \ Value \ \subfontbysize 180 \ Doc	\strike ⁸⁷		Toggle
\stshfdbch/\(^{2002}\) \ Default Fonts \ Value \\ \stshfhich/\(^{2002}\) \ Default Fonts \ Value \\ \stshfhich/\(^{2002}\) \ Default Fonts \ Value \\ \stshfloch/\(^{2002}\) \ Default Fonts \ Value \\ \stylelock\(^{2003}\) \ Document Formatting Properties \ Flag \\ \stylelockbackcomp\(^{2003}\) \ Document Formatting Properties \ Flag \\ \stylelockenforced\(^{2003}\) \ Document Formatting Properties \ Flag \\ \stylelockfset\(^{2007}\) \ Document Formatting Properties \ Flag \\ \stylelockfset\(^{2007}\) \ Document Formatting Properties \ Flag \\ \stylelocktheme\(^{2007}\) \ Document Formatting Properties \ Flag \\ \stylesheet\(^{87}\) \ Style Sheet \ Destination \\ \stylesortmethod\(^{2007}\) \ Document Formatting Properties \ Value \\ \sub\(^{2002}\) \ Style Sheet \ Value \\ \sub\(^{2002}\) \ Style Sheet \ Value \\ \sub\(^{2002}\) \ Subdocument\(^{2002}\) \ Paragraph Formatting Properties \ Value \\ \sub\(^{2002}\) \ Subdocument\(^{2002}\) \ Paragraph Formatting Properties \ Value \\ \sub\(^{2002}\) \ Sublect\(^{87}\) \ Document Formatting Properties \ Flag \\ \sub\(^{2007}\) \ Style Sheet \ Value \\ \sub\(^{2007}\) \ Style Shee	\striked1 97	<u>Character Text</u>	Toggle
\stshfhichN 2002 \ Default Fonts \ Value \ \stshflochN 2002 \ Default Fonts \ Value \ \stylelock 2003 \ Document Formatting Properties \ Flag \ \stylelockbackcomp 2003 \ Document Formatting Properties \ Flag \ \stylelockbackcomp 2003 \ Document Formatting Properties \ Flag \ \stylelockenforced 2003 \ Document Formatting Properties \ Flag \ \stylelockqfset 2007 \ Document Formatting Properties \ Flag \ \stylelocktheme 2007 \ Document Formatting Properties \ Flag \ \stylelocktheme 2007 \ Document Formatting Properties \ Flag \ \stylesortmethodN 2007 \ Document Formatting Properties \ Value \ \stylesortmethodN 2002 \ Style Sheet \ Value \ \sub \ Font (Character) Formatting \ Fromatting \ Flag \ \subdocumentN \ Paragraph Formatting Properties \ Value \ \subfontbysize 95 \ Document Formatting Properties \ Flag \ \subfontbysize 95 \ Document Formatting Properties \ Flag \ \subfontbysize 87 \ Information Group \ Destination \ \sunhideusedN 2007 \ Style Sheet \ Value \ \sub Font (Character) Formatting Properties \ Value \ \sub Font (Character) Formatting Properties \ Flag \ \sub Font (Character) Formatting Properties \ Flag \ \sub Font (Character) Formatting Properties \ Value \ \sub Font (Character) Formatting \ Properties \ Value \ \sub Font (Character) Formatting \ Properties \ Value \ \sub Font (Character) Formatting \ Properties \ Value \ \sub Font (Character) Formatting \ Properties \ Value \ \sub Font (Character) Formatting \ Properties \ Value \ \sub Font (Character) Formatting \ Properties \ Value \ \sub Font (Character) Formatting \ Properties \ Value \ \sub Font (Character) Formatting \ Properties \ Value \ \ \sub Font (Character) Formatting \ Properties \ Value \ \ \sub Font (Character) Formatting \ Properties \ Value \ \ \sub Font (Character) Formatting \ Properties \ Value \ \ \sub Font (Character) Formatting \ Properties \ Value \ \ \sub Font (Character) Formatting \ Properties \ Value \ \ \sub Font (Character) Formatting \ Properties \ Value \ \ \sub Font (Character) Formatting \ Properties \ \ Value \	\stshfbiN ²⁰⁰²	<u>Default Fonts</u>	Value
\stshflochN 2002 \text{ylelock 2003} \text{Document Formatting Properties} Flag \text{stylelockbackcomp 2003} \text{Document Formatting Properties} Flag \text{stylelockenforced 2003} \text{Document Formatting Properties} Flag \text{stylelockenforced 2003} \text{Document Formatting Properties} Flag \text{\text{stylelockqfset 2007}} \text{Document Formatting Properties} Flag \text{\text{\text{stylelocktheme 2007}} \text{Document Formatting Properties} Flag \text{\text{\text{\text{stylesheet } 87}} \text{Document Formatting Properties} Value \text{\	\stshfdbchN ²⁰⁰²	<u>Default Fonts</u>	Value
\stylelock 2003 Document Formatting Properties Flag \stylelockbackcomp 2003 Document Formatting Properties Flag \stylelockenforced 2003 Document Formatting Properties Flag \stylelockqfset 2007 Document Formatting Properties Flag \stylelockqfset 2007 Document Formatting Properties Flag \stylelocktheme 2007 Document Formatting Properties Flag \stylesheet 87 Destination \stylesortmethod N 2007 Document Formatting Properties Value \styrsid N 2002 Style Sheet Value \sub \frac{Font (Character) Formatting Properties}{Properties} Value \subfontbysize 95 Document Formatting Properties Flag \subfontbysize 95 Document Formatting Properties Flag \subfontbysize 87 Information Group Destination \sunhideused N 2007 \style Sheet Value \super \frac{Font (Character) Formatting}{Properties} Flag \subfontbysize 95 \sub (Style Sheet) Value \sub (Style Sheet) Value \super \frac{Font (Character) Formatting}{Properties} Flag \sub (Style Sheet) Value \super \frac{Font (Character) Formatting}{Properties} Flag \super Style Sheet Value \super Style Sheet Value \super Style Sheet Value \super Font (Character) Formatting \frac{Font (Character) Formatting}{Properties} Flag \super Style Sheet Value \super Sty	\stshfhichN ²⁰⁰²	<u>Default Fonts</u>	Value
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\stylelockenforced 2003 \stylelockqfset 2007 \text{Document Formatting Properties} \text{Flag} \stylelocktheme 2007 \text{Document Formatting Properties} \text{Flag} \stylelocktheme 2007 \text{Document Formatting Properties} \text{Flag} \stylesheet 87 \text{Style Sheet} \text{Destination} \stylesortmethod N 2007 \text{Document Formatting Properties} \text{Value} \styrsid N 2002 \text{Style Sheet} \text{Value} \text{Sub} \text{Font (Character) Formatting Properties} \text{Value} \text{Subdocument N} \text{Paragraph Formatting Properties} \text{Value} \text{Subfontbysize 95} \text{Document Formatting Properties} \text{Flag} \text{Subject 87} \text{Information Group} \text{Destination} \text{Style Sheet} \text{Value} \text{Super} \text{Super} \text{Style Sheet} \text{Value} \text{Super} \text{Super} \text{South Character) Formatting Properties} \text{Value} \text{South Character) Formatting Properties} \text{Value} \text{South Character) Formatting Properties} \text{Value} \text{Value}	\stylelock ²⁰⁰³	Document Formatting Properties	Flag
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\stylelocktheme 2007 \text{Stylesheet 87} \text{Style Sheet} \text{Document Formatting Properties} \text{Value} \text{\text{\text{\text{StyrsidN}}} 2002} \text{\text{\text{\text{Style Sheet}}} \text{Value} \text{\text{\text{\text{StyrsidN}}} 2002} \text{\text{\text{\text{Style Sheet}}} \text{Value} \text{\text{\text{\text{SubdocumentN}}} \text{\text{\text{\text{SubdocumentN}}} \text{\text{\text{\text{Pormatting Properties}}} \text{\text{\text{Value}} \text{\text{\text{Subfontbysize}} 95} \text{\text{\text{Document Formatting Properties}} \text{\text{\text{Flag}}} \text{\text{\text{Subject}} 87} \text{\text{\text{Information Group}}} \text{\text{\text{Super}}} \text{\text{\text{Document}} \text{\text{\text{Value}}} \text{\t	\stylelockenforced ²⁰⁰³	Document Formatting Properties	Flag
\stylesheet ⁸⁷ Style Sheet Destination \stylesortmethod N ²⁰⁰⁷ Document Formatting Properties Value \styrsid N ²⁰⁰² Style Sheet Value \sub \sub \text{Font (Character) Formatting Properties} Plag \subdocument N Paragraph Formatting Properties Value \subfontbysize ⁹⁵ Document Formatting Properties Flag \subject ⁸⁷ Information Group Destination \sunhideused N ²⁰⁰⁷ Style Sheet Value \super Font (Character) Formatting Properties Flag \super Style Sheet Value \super Font (Character) Formatting Flag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Plag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Plag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Plag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Plag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Plag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Plag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Plag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Plag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Plag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Plag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Plag \super Flag \sup	\stylelockqfset ²⁰⁰⁷	Document Formatting Properties	Flag
\stylesheet 87 Style Sheet Destination \stylesortmethodN 2007 Document Formatting Properties Value \styrsidN 2002 Style Sheet Value \sub \sub \text{Font (Character) Formatting Properties} Flag \subdocumentN Paragraph Formatting Properties Value \subfontbysize 95 Document Formatting Properties Flag \subject 87 Information Group Destination \sunhideusedN 2007 Style Sheet Value \super Font (Character) Formatting Properties Flag \super Font (Character) Formatting Flag \super Destination Flag \super Style Sheet Value \super Font (Character) Formatting Flag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Flag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Flag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Flag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Flag \super Properties Flag \super Style Sheet Value \super Font (Character) Formatting Flag \super Flag \sup		Document Formatting Properties	Flag
\stylesortmethodN 2007 \styrsidN 2002 \Style Sheet \Value \sub \frac{Font (Character) Formatting Properties}{Properties} \Value \subdocumentN \subdocumentN \subfontbysize 95 \subject 87 \Information Group \subject 87 \subject Style Sheet \Value \subject 87 \subject Style Sheet \value \subject Style Sheet \value \super \frac{Font (Character) Formatting Properties}{Properties} \value \subject 87 \Information Group \subject 87 \Style Sheet \value \subject 87 \Style Sheet \value \value \subject 87 \Style Sheet \value \value \subject 87 \Style Sheet \value \value \subject 87 \subj	\stylesheet 87		Destination
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\sub Font (Character) Formatting Flag		Style Sheet	Value
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\subfontbysize 95 \text{Subfontbysize 95} \text{Informatting Properties} \text{Informatting Properties} \text{Subject 87} \text{Information Group} \text{Destination} \text{Value} \text{Value} \text{Super} \text{Font (Character) Formatting Properties} \text{Value} \text{Flag} \text{Value} \text{Destination} \text{Vord 97 through Word 2003 RTF for Destination}	\subdocumentN	Paragraph Formatting Properties	Value
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\trpatV 2002	\trpadorN ²⁰⁰⁰	Table Definitions	Value	
\trqc \frac{Table Definitions}{Table Definitions} Flag		Table Definitions	Value	
	\trpat/V ²⁰⁰²	Table Definitions	Value	
\trql Table Definitions Flag	\trqc	Table Definitions	Flag	
	\trql	Table Definitions	Flag	

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Control word	Described in section	Туре
\trqr	Table Definitions	Flag
\trrhN	<u>Table Definitions</u>	Value
\trshdngN ²⁰⁰²	Table Definitions	Value
\trspdbN ²⁰⁰⁰	Table Definitions	Value
\trspdfb/V ²⁰⁰⁰	Table Definitions	Value
\trspdflN ²⁰⁰⁰	Table Definitions	Value
\trspdfrN ²⁰⁰⁰	Table Definitions	Value
\trspdftN ²⁰⁰⁰	Table Definitions	Value
\trspdIN ²⁰⁰⁰	Table Definitions	Value
\trspdrN ²⁰⁰⁰	Table Definitions	Value
\trspdtN ²⁰⁰⁰	Table Definitions	Value
\trspobN ²⁰⁰⁰	Table Definitions	Value
\trspofbN ²⁰⁰⁰	Table Definitions	Value
\trspoflN ²⁰⁰⁰	Table Definitions	Value
\trspofrN ²⁰⁰⁰	Table Definitions	Value
\trspoftN ²⁰⁰⁰	Table Definitions	Value
\trspolN ²⁰⁰⁰	Table Definitions	Value
\trsporN ²⁰⁰⁰	Table Definitions	Value
\trspotN ²⁰⁰⁰	Table Definitions	Value
\truncatefontheight	Document Formatting Properties	Flag
\truncex	Document Formatting Properties	Flag
\trwWidthAN ²⁰⁰⁰	Table Definitions	Value
\trwWidthB <i>N</i> ²⁰⁰⁰	Table Definitions	Value
\trwWidth/V ²⁰⁰⁰	Table Definitions	Value
\tsN ²⁰⁰²	Style Sheet	Value
\tsbgbdiag ²⁰⁰²	Table Styles	Flag
\tsbgcross ²⁰⁰²	Table Styles	Flag
\tsbgdcross ²⁰⁰²	Table Styles	Flag
\tsbgdkbdiag ²⁰⁰²	Table Styles	Flag
\tsbgdkcross ²⁰⁰²	Table Styles	Flag
\tsbgdkdcross ²⁰⁰²	<u>Table Styles</u>	Flag
\tsbgdkfdiag ²⁰⁰²	Table Styles	Flag
\tsbgdkhor ²⁰⁰²	Table Styles	Flag
\tsbgdkvert ²⁰⁰²	Table Styles	Flag
\tsbgfdiag ²⁰⁰²	Table Styles	Flag
\tsbghoriz ²⁰⁰²	Table Styles	Flag
\tsbgvert ²⁰⁰²	Table Styles	Flag
\tsbrdrb ²⁰⁰²	Table Styles	Flag
\tsbrdrdgl ²⁰⁰²	Table Styles	Flag
\tsbrdrdgr ²⁰⁰²	Table Styles	Flag
\tsbrdrh ²⁰⁰²	Table Styles	Flag

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Control word	Described in section	Туре
\tsbrdrl ²⁰⁰²	Table Styles	Flag
\tsbrdrr ²⁰⁰²	Table Styles	Flag
\tsbrdrr ²⁰⁰²	Table Styles	Flag
\tsbrdrt ²⁰⁰²	Table Styles	Flag
\tsbrdrv ²⁰⁰²	Table Styles	Flag
\tscbandhorzeven 2002	Paragraph Formatting Properties	Flag
\tscbandhorzodd ²⁰⁰²	Paragraph Formatting Properties	Flag
\tscbandshN ²⁰⁰²	Table Styles	Value
\tscbandsvN ²⁰⁰²	Table Styles	Value
\tscbandverteven ²⁰⁰²	Paragraph Formatting Properties	Flag
\tscbandvertodd ²⁰⁰²	Paragraph Formatting Properties	Flag
\tscellcbpatN ²⁰⁰²	Table Styles	Value
\tscellcfpatN ²⁰⁰²	Table Styles	Value
\tscellpaddbN ²⁰⁰²	Table Styles	Value
\tscellpaddfbN ²⁰⁰²	Table Styles	Value
\tscellpaddflN ²⁰⁰²	Table Styles	Value
\tscellpaddfrN ²⁰⁰²	Table Styles	Value
\tscellpaddftN ²⁰⁰²	Table Styles	Value
\tscellpaddl N ²⁰⁰²	Table Styles	Value
\tscellpaddrN ²⁰⁰²	Table Styles	Value
\tscellpaddtN ²⁰⁰²	Table Styles	Value
\tscellpct/V ²⁰⁰²	Table Styles	Value
\tscellwidth <i>N</i> ²⁰⁰²	Table Styles	Value
\tscellwidthfts /V ²⁰⁰²	Table Styles	Value
\tscfirstcol ²⁰⁰²	Paragraph Formatting Properties	Flag
\tscfirstrow ²⁰⁰²	Paragraph Formatting Properties	Flag
\tsclastcol ²⁰⁰²	Paragraph Formatting Properties	Flag
\tsclastrow ²⁰⁰²	Paragraph Formatting Properties	Flag
\tscnecell ²⁰⁰²	Paragraph Formatting Properties	Flag
\tscnwcell ²⁰⁰²	Paragraph Formatting Properties	Flag
\tscsecell ²⁰⁰²	Paragraph Formatting Properties	Flag
\tscswcell ²⁰⁰²	Paragraph Formatting Properties	Flag
\tsd ²⁰⁰²	Document Formatting Properties	Flag
\tsnowrap ²⁰⁰²	Table Styles	Flag
\tsrowd ²⁰⁰²	Style Sheet	Flag
\tsvertalb ²⁰⁰²	Table Styles	Flag
\tsvertalc ²⁰⁰²	Table Styles	Flag
\tsvertalt ²⁰⁰²	Table Styles	Flag
\twoinoneN ²⁰⁰⁰	New Asia Control Words Created by Word 2000	Value
\twoonone ⁹⁵	Document Formatting Properties	Flag

Control word	Described in section	Туре
\txN ⁸⁷	<u>Tabs</u>	Value
\txbxtwalways ²⁰⁰⁷	Paragraph Formatting Properties	Flag
\txbxtwfirst ²⁰⁰⁷	Paragraph Formatting Properties	Flag
\txbxtwfirstlast ²⁰⁰⁷	Paragraph Formatting Properties	Flag
\txbxtwlast ²⁰⁰⁷	Paragraph Formatting Properties	Flag
\txbxtwno ²⁰⁰⁷	Paragraph Formatting Properties	Flag
\txe	<u>Index Entries</u>	Destination
\u N	Unicode RTF	Value
\uc <i>N</i> ⁹⁷	Unicode RTF	Value
\ud ⁹⁷	Unicode RTF	Destination
\ul ⁸⁷	<u>Font (Character) Formatting</u> <u>Properties</u>	Toggle
\ulc/V ²⁰⁰⁰	<u>Font (Character) Formatting</u> <u>Properties</u>	Value
\uld ⁸⁷	Font (Character) Formatting Properties	Flag
\uldash ⁹⁵	Font (Character) Formatting Properties	Toggle
\uldashd ⁹⁵	Font (Character) Formatting Properties	Toggle
\uldashdd ⁹⁵	Font (Character) Formatting Properties	Toggle
\uldb ⁸⁷	Font (Character) Formatting Properties	Toggle
\ulhair ⁹⁵	East Asian Control Words Created by Word 61	Toggle
\ulhwave ²⁰⁰⁰	Font (Character) Formatting Properties	Toggle
\ulldash ²⁰⁰⁰	Font (Character) Formatting Properties	Toggle
\ulnone ⁸⁷	Font (Character) Formatting Properties	Flag
\ulth ⁹⁵	<u>Font (Character) Formatting</u> <u>Properties</u>	Toggle
\ulth ⁹⁷	<u>Font (Character) Formatting</u> <u>Properties</u>	Toggle
\ulthd ²⁰⁰⁰	Font (Character) Formatting Properties	Toggle
\ulthdash ²⁰⁰⁰	Font (Character) Formatting Properties	Toggle
\ulthdashd ²⁰⁰⁰	<u>Font (Character) Formatting</u> <u>Properties</u>	Toggle
\ulthdashdd ²⁰⁰⁰	Font (Character) Formatting Properties	Toggle
\ulthidash ²⁰⁰⁰	<u>Font (Character) Formatting</u> <u>Properties</u>	Toggle
\ululdbwave ²⁰⁰⁰	Font (Character) Formatting	Toggle

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Control word	Described in section	Туре
	<u>Properties</u>	
\ulw ⁸⁷	<u>Font (Character) Formatting</u> <u>Properties</u>	Flag
\ulwave ⁹⁵	<u>Font (Character) Formatting</u> <u>Properties</u>	Toggle
\up <i>N</i> ⁸⁷	Font (Character) Formatting Properties	Value
\upr ⁹⁷	Unicode RTF	Destination
\urtf <i>N</i>	Control Words Introduced by Other Microsoft Products	Value
\useltbaln ²⁰⁰⁰	Document Formatting Properties	Flag
\usenormstyforlist ²⁰⁰⁷	Document Formatting Properties	Flag
\userprops ⁹⁵	Information Group	Destination
\usexform ²⁰⁰⁷	Document Formatting Properties	Flag
\utinl ²⁰⁰⁷	Document Formatting Properties	Flag
\v	<u>Font (Character) Formatting</u> <u>Properties</u>	Toggle
\validatexmlN ²⁰⁰⁷	Document Formatting Properties	Value
\vernN ⁸⁷	Information Group	Value
\versionN ⁸⁷	Information Group	Value
\vertal ⁸⁷	Section Formatting Properties	Flag
\vertalb	Section Formatting Properties	Flag
\vertalc ⁸⁷	Section Formatting Properties	Flag
\vertalj ⁸⁷	Section Formatting Properties	Flag
\vertalt ⁸⁷	Section Formatting Properties	Flag
\vertdoc ⁹⁵	Document Formatting Properties	Flag
\vertsect ⁹⁵	Section Formatting Properties	Flag
\viewbkspN ²⁰⁰³	Document Formatting Properties	Value
\viewkindN ⁹⁷	Document Formatting Properties	Value
\viewnobound ²⁰⁰²	Document Formatting Properties	Flag
\viewscale/V 97	Document Formatting Properties	Value
\viewzkN ⁹⁷	Document Formatting Properties	Value
\wbitmap <i>N</i>	<u>Pictures</u>	Value
\wbmbitspixel <i>N</i>	<u>Pictures</u>	Value
\wbmplanes/V	<u>Pictures</u>	Value
\wbmwidthbyteN	<u>Pictures</u>	Value
\webhidden ²⁰⁰⁰	Font (Character) Formatting Properties	Flag
\wgrffmtfilter ²⁰⁰⁷	Document Formatting Properties	Destination
\widctlpar	Paragraph Formatting Properties	Flag
\widowctrl ⁸⁷	Document Formatting Properties	Flag
\windowcaption ⁹⁷	Document Formatting Properties	Destination
\wmetafileN ⁸⁷	<u>Pictures</u>	Value

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Control word	Described in section	Туре
\wpeqn ⁹⁷	<u>Fields</u>	Flag (obsolete)
\wpjst ⁹⁷	Document Formatting Properties	Flag
\wpsp ⁹⁷	Document Formatting Properties	Flag
\wraparound ²⁰⁰⁷	Positioned Objects and Frames	Flag
\wrapdefault ²⁰⁰⁷	Positioned Objects and Frames	Flag
\wrapthrough ²⁰⁰⁷	Positioned Objects and Frames	Flag
\wraptight ²⁰⁰⁷	Positioned Objects and Frames	Flag
\wraptrsp	Document Formatting Properties	Flag
\writereservation	Document Formatting Properties	Destination
\writereservhash ²⁰⁰⁷	Document Formatting Properties	Destination
\wrppunct ²⁰⁰²	Document Formatting Properties	Flag
\xe	Index Entries	Destination
\xef <i>N</i>	Index Entries	Value
\xform ²⁰⁰⁷	Document Formatting Properties	Destination
\xmlattr ²⁰⁰⁷	Custom XML Tags	Flag
\xmlattrname ²⁰⁰⁷	Custom XML Tags	Destination
\xmlattrns N ²⁰⁰⁷	Custom XML Tags	Value
\xmlattrvalue 2007	Custom XML Tags	Destination
\xmlclose ²⁰⁰⁷	Custom XML Tags	Destination
\xmlname ²⁰⁰⁷	Custom XML Tags	Destination
\xmlns/V ²⁰⁰⁷	Custom XML Tags	Value
\xmlnstbl ²⁰⁰⁷	Custom XML Tags	Destination
\xmlopen ²⁰⁰⁷	Custom XML Tags	Destination
\xmlsdttcell ²⁰⁰⁷	Custom XML Tags	Flag
\xmlsdttpara ²⁰⁰⁷	Custom XML Tags	Flag
\xmlsdttregular ²⁰⁰⁷	Custom XML Tags	Flag
\xmlsdttrow ²⁰⁰⁷	Custom XML Tags	Flag
\xmlsdttunknown ²⁰⁰⁷	Custom XML Tags	Flag
\yr N ⁸⁷	Information Group	Value
\ytsN ²⁰⁰²	Paragraph Formatting Properties	Value
\yxe ⁹⁷	Index Entries	Flag
\zwbo ⁹⁵	Special Characters	Symbol
\zwj ²⁰⁰²	Special Characters	Symbol
\zwnbo ⁹⁵	Special Characters	Symbol
\zwnj ²⁰⁰²	Special Characters	Symbol

Appendix C: Control Words Introduced by Specific/Other Microsoft Products

Pocket Word and RichEdit

Control word	Meaning
\disabled	Character formatting property used by RichEdit to mark text runs as disabled. \disabled turns on the disabled effect and \disabled0 turns it off.
\protect	Character formatting flag used by RichEdit to mark text runs as protected. Introduced for Outlook 97. \protect turns on protection and \protect0 turns it off.
\pwd/\	Substitute for \rtfN . Introduced by Pocket Word to distinguish its files from general RTF files. Currently only 1 is emitted and the number is ignored by the RTF reader.
\urtfN	Identifies an RTF file in which all text characters are encoded in UTF-8. Only binary data escapes this transformation. Word does not read this encoding of RTF.

Exchange (Used in RTF ↔ HTML Conversions)

Control word	Meaning
*\htmltag <i>N</i>	Indicates that the destination is encapsulated HTML text (to be ignored by RTF readers, but used during reverse RTF->HTML conversion). This keyword is followed by a numeric parameter containing encapsulation flags.
\htmlrtf <i>N</i>	Toggling keyword to mark pieces of RTF to be ignored during reverse RTF->HTML conversion. N missing or $N = 1$ turns effect on; $N = 0$ turns it off.
*\mhtmltag <i>N</i>	Indicates that the destination is an encapsulated tag with rewritten URL links that should be used in a conversion to plain HTML. Typically, URL links are rewritten as automatically generated MHTML reference names or as absolute external links. The keyword is followed by the flag parameter (the same one as for the \htmltagN keyword).
\htmlbase	Placeholder in front of encapsulated MHTML reference name that marks the place where the base URL should be appended. This keyword is only used inside the \mhtmltag destination.

Microsoft Office Outlook (Used in RTF E-Mail)

Control word	Meaning
*\ebcstart #PCDATA	Specifies start of Electronic Business Card data. This is a destination control word.
*\ebcend #PCDATA	Specifies end of Electronic Business Card data. This is a destination control word.

References

1987 RTF specification: *Microsoft Systems Journal*, March 1987. Control words defined in this specification are followed by the superscript ⁸⁷ in the <u>Appendix B Control Word table</u>. Note that more control words were in Word 3.0 for the Apple Macintosh in 1987, but the basic destinations are defined in the specification.

Office OpenXML: Ecma-376, Part 4.

Linear Format: Unicode Technical Note #28

Unicode Technical Report #25, "Unicode Support for Mathematics".

TeX: Donald E. Knuth, *The TeXbook*, (Reading, Massachusetts, Addison-Wesley 1984).

Unicode Standard: http://www.unicode.org.

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