

## CheckOutlines

checkoutlines font.otf > output.txt

Checking h.superior  
Checking i.superior  
Checking l.superior  
Checking m.superior  
Checking n.superior  
Checking lira  
Checking peseta  
Checking peseta.alt  
Checking afii61352  
Checking estimated

msg for estimated: Need to convert straight curve:  
msg for estimated: 746 302 .. 746 311

Checking a.sc  
Checking b.sc  
Checking f.sc

msg for f.sc: Need to inspect for possible loop/inflection:  
msg for f.sc: 214 410 .. 237 440

Checking g.sc  
Checking h.sc  
Checking florin.taboldstyle  
Checking s.superior  
Checking t.superior  
Checking orn.025  
Checking orn.028

msg for orn.028: Need to fix wrong orientation on subpath with original moveto at 337 239

Checking uni2190.alt1  
Checking uni2192.alt1  
Checking uni2190.alt2  
Checking uni2192.alt2

msg for uni2192.alt2: Need to join colinear lines:  
msg for uni2192.alt2: 200 211 .. 200 51  
msg for uni2192.alt2: and  
msg for uni2192.alt2: 200 51 .. 200 50

Checking blackleftpointingtriangle

msg for blackleftpointingtriangle: Need to fix coincident control points:  
msg for blackleftpointingtriangle: 359 73 .. 359 383

Checking blackdiamond  
Checking blacksquare  
Checking uni2610  
Checking uni2611  
Checking at.cap  
Checking emdash.cap

**tx**

tx -dump -0 test.otf

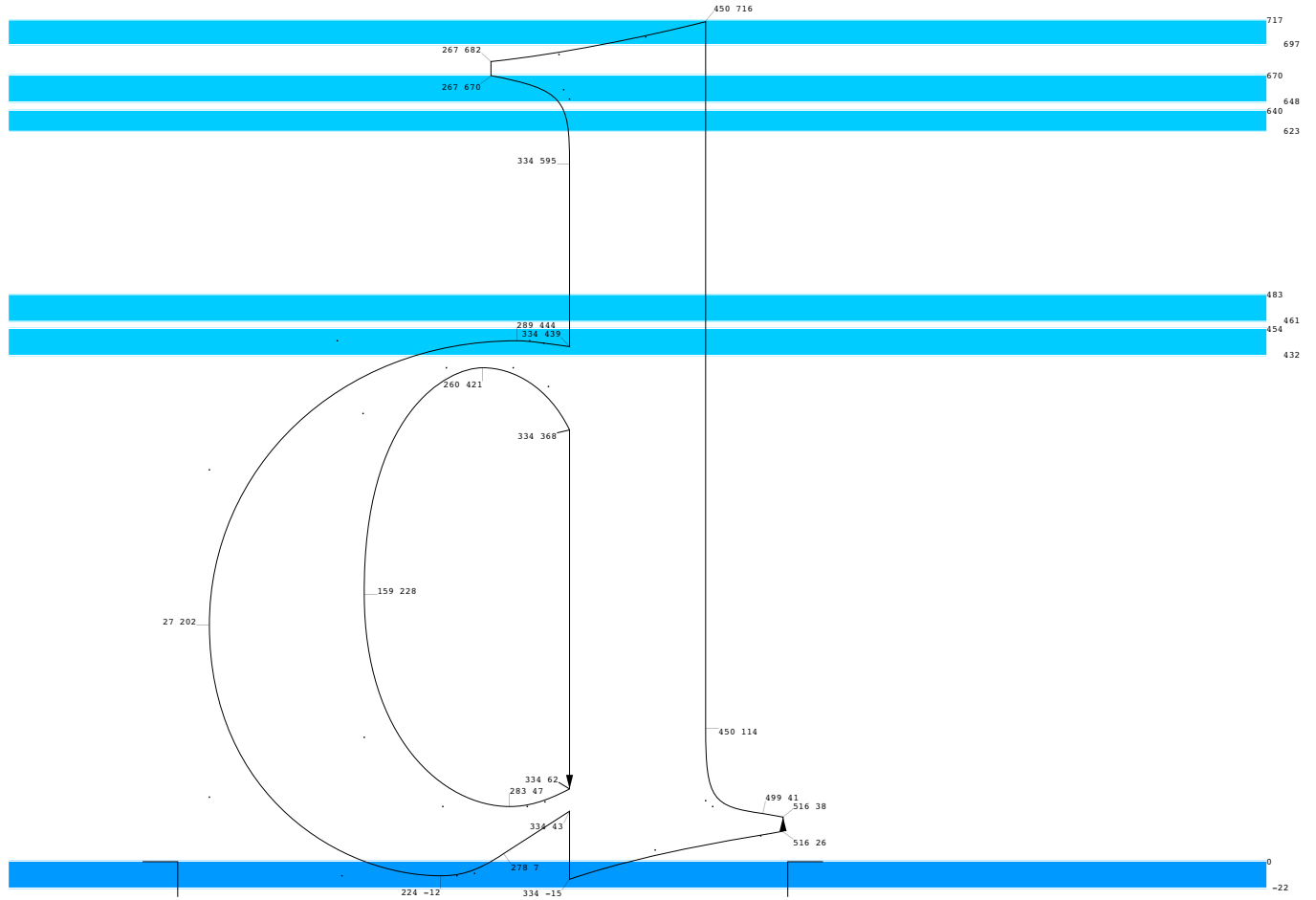
```
### Top Dict
version "002.000"
Notice "Copyright 2000, 2002, 2005 Adobe Systems Incorporated. All Rights Reserved. U.S.
Patent Des. 337,604.Minion is either a registered trademark or a trademark of
Adobe Systems Incorporated in the United States and/or other countries."
FullName "Minion Pro Bold Display"
FamilyName "Minion Pro"
Weight "Bold"
FontBBox {-293,-331,1592,976}
FSType 8
sup.srcFontType CFF (name-keyed)
sup.nGlyphs 1668
### FontDict[0]
FontName "MinionPro-BoldDisp"
### Private
BlueValues {-22,0,648,670,432,454,623,640,697,717,461,483}
OtherBlues {-260,-238}
FamilyBlues {-22,0,648,669,428,450,623,640,701,722,453,475}
FamilyOtherBlues {-274,-252}
BlueScale 0.0437917
BlueShift 5.1
StdHW 24
StdVW 117
ForceBold true
```



tx

tx -pdf -1 test.otf > glyphset.pdf (continued)

Date: 19 Apr 07  
Time: 17:49



glyph	d
tag	69
enc	510001 -238
hAdv	520
left	27
bottom	-15
right	516
top	716
moves	2
lines	8
curves	12
total	22

# spot

spot -t OS/2 test.otf

```
### [OS/2] (00000130)
version          =2
averageWidth     =524
weightClass      =700          (Bold)
widthClass       =5           (Medium/Normal (100% of normal))
type             =0008
subscriptXSize   =650
subscriptYSize   =600
subscriptXOffset =0
subscriptYOffset =75
superscriptXSize =650
superscriptYSize =600
superscriptXOffset=0
superscriptYOffset=350
strikeoutSize    =50
strikeoutPosition =262
familyClass      =0000          (class =No Classification
                                subclass=No Classification)
panose           =2473721223 (Family Kind      (2)=Text & Display
                                Serif Style      (4)=Square Cove
                                Weight          (7)=Demi
                                Proportion      (3)=Modern
                                Contrast        (7)=Medium High
                                Stroke Variation (2)=Gradual/Diagonal
                                Arm Style      (1)=No Fit
                                Letterform     (2)=Normal/Contact
                                Midline        (2)=Standard/Trimmed
                                X-height       (3)=Constant/Standard)
unicodeRange1    =60000287 (Basic Latin
                                Latin-1 Supplement
                                Latin Extended-A
                                Basic Greek
                                Cyrillic
                                Latin Extend Additional
                                Greek Extended)
unicodeRange2    =00000001 (Superscripts and Subscripts)
unicodeRange3    =00000000
unicodeRange4    =00000000
vendor           =ADBE
selection        =0020          (BOLD)
firstChar        =U+0020
lastChar         =U+FB06
TypoAscender     =727
TypoDescender    =-273
TypoLineGap      =200
windowsAscent    =976
windowsDescent   =331
codePageRange1   =2000019f (Latin 1 (1252)
                                Latin 2: Eastern Europe (1250)
                                Cyrillic (1251)
                                Greek (1253)
                                Turkish (1254)
                                Windows Baltic (1257)
                                Vietnamese
                                Macintosh Character Set (US Roman))
codePageRange2   =00000000
xHeight          =438
capHeight        =651
defaultChar      =U+0000
breakChar        =U+0020
maxContext       =4
```

# spot

spot -t name=3 test.otf

```
### [name]
--- record[index]={platformId,scriptId,languageId,nameId,length,offset} = <name value>
[ 0]={ 1, 0, 0, 0, 89,0000} [0000]=<\a9 2000, 2002, 2004 Adobe Systems Incorporated. All Rights Reserved. U.S. Patent D371,799.>
[ 1]={ 1, 0, 0, 1, 10,0059} [0059]=<Minion Pro>
[ 2]={ 1, 0, 0, 2, 12,0063} [0063]=<Bold Display>
[ 3]={ 1, 0, 0, 3, 29,006f} [006f]=<2.015;ADBE;MinionPro-BoldDisp>
[ 4]={ 1, 0, 0, 4, 23,008c} [008c]=<Minion Pro Bold Display>
[ 5]={ 1, 0, 0, 5, 57,00a3} [00a3]=<Version 2.015;PS 002.000;Core 1.0.50;makeotf.lib2.0.15868>
[ 6]={ 1, 0, 0, 6, 18,00dc} [00dc]=<MinionPro-BoldDisp>
[ 7]={ 1, 0, 0, 7, 129,00ee} [00ee]=<Minion is either a registered trademark or a trademark of Adobe Systems Incorporated in the United States and/or other countries.>
[ 8]={ 1, 0, 0, 9, 15,016f} [016f]=<Robert Slimbach>
[ 9]={ 1, 0, 0, 11, 26,017e} [017e]=<http://www.adobe.com/type/>
[10]={ 1, 0, 0, 14, 36,0198} [0198]=<http://www.adobe.com/type/legal.html>
[11]={ 1, 0, 0, 18, 20,01bc} [01bc]=<Minion Pro Bold Disp>
[12]={ 1, 0, 0, 256, 4,01d0} [01d0]=<Bold>
[13]={ 3, 1, 409, 0, 178,01d4} [01d4]=<\00a9 2000, 2002, 2004 Adobe Systems Incorporated. All Rights Reserved. U.S. Patent D371,799.>
[14]={ 3, 1, 409, 1, 30,0286} [0286]=<Minion Pro Disp>
[15]={ 3, 1, 409, 256, 8,02a4} [02a4]=<Bold>
[16]={ 3, 1, 409, 2, 8,02a4} [02a4]=<Bold>
[17]={ 3, 1, 409, 3, 58,02ac} [02ac]=<2.015;ADBE;MinionPro-BoldDisp>
[18]={ 3, 1, 409, 6, 36,02e6} [02e6]=<MinionPro-BoldDisp>
[19]={ 3, 1, 409, 4, 36,02e6} [02e6]=<MinionPro-BoldDisp>
[20]={ 3, 1, 409, 5, 114,030a} [030a]=<Version 2.015;PS 002.000;Core 1.0.50;makeotf.lib2.0.15868>
[21]={ 3, 1, 409, 7, 258,037c} [037c]=<Minion is either a registered trademark or a trademark of Adobe Systems Incorporated in the United States and/or other countries.>
[22]={ 3, 1, 409, 9, 30,047e} [047e]=<Robert Slimbach>
[23]={ 3, 1, 409, 11, 52,049c} [049c]=<http://www.adobe.com/type/>
[24]={ 3, 1, 409, 14, 72,04d0} [04d0]=<http://www.adobe.com/type/legal.html>
[25]={ 3, 1, 409, 16, 20,0518} [0518]=<Minion Pro>
[26]={ 3, 1, 409, 17, 24,052c} [052c]=<Bold Display>
```

## spot

```
spot -t GPOS=7 test.otf > gpos.txt
```

```
# Printing lookup 0 in feature 'cbsp' for script 'DFLT' language 'dflt'.
# ----- SubTable 0
position zero <5 0 10 0>;
position one <5 0 10 0>;
position two <5 0 10 0>;
position three <5 0 10 0>;
position four <5 0 10 0>;
position five <5 0 10 0>;
position A <5 0 10 0>;
position B <5 0 10 0>;
position C <5 0 10 0>;
position D <5 0 10 0>;
position E <5 0 10 0>;
position F <5 0 10 0>;

# Printing lookup 1 in feature 'kern' for script 'DFLT' language 'dflt'.
# ----- SubTable 0
pos quoteright i 22;
pos quoteright j 22;
pos quoteright eth -123;
pos quoteright imacron 22;
pos quoteright itilde 22;
pos quoteright jcircumflex 22;
pos F igrave -13;
pos F ij -13;
pos F ibreve -13;
pos F imacron -13;
pos F itilde -13;

# ----- SubTable 1
# ----- Glyph Classes
@LEFT_CLASS_0_1 = [a acute acircumflex adieresis agrave aring atilde abreve amacron aogonek];
@LEFT_CLASS_1_1 = [a.sc acute.sc abreve.sc acircumflex.sc adieresis.sc
Abreve.sc Acircumflex.sc Adieresis.sc Agrave.sc Amacron.sc];
@RIGHT_CLASS_4_1 = [h k l thorn k.alt hbar hcircumflex kcommaaccent lacute lcaron lcommaaccent ldot];
@RIGHT_CLASS_8_1 = [j.sc jcircumflex.sc J.sc Jcircumflex.sc];

pos @LEFT_CLASS_0_1 @RIGHT_CLASS_5_1 -14;
pos @LEFT_CLASS_0_1 @RIGHT_CLASS_6_1 -94;
pos @LEFT_CLASS_0_1 @RIGHT_CLASS_7_1 -6;
pos @LEFT_CLASS_0_1 @RIGHT_CLASS_8_1 0;
pos @LEFT_CLASS_0_1 @RIGHT_CLASS_9_1 0;
pos @LEFT_CLASS_0_1 @RIGHT_CLASS_10_1 0;
pos @LEFT_CLASS_0_1 @RIGHT_CLASS_11_1 0;

# ----- SubTable 3
# ----- Glyph Classes
@LEFT_CLASS_0_3 = [alpha alphanos uni1F00 uni1F01 uni1F02 uni1F03 uni1F04];
@LEFT_CLASS_4_3 = [Beta];
@RIGHT_CLASS_3_3 = [chi];
@RIGHT_CLASS_4_3 = [epsilon epsilontonos uni1F10 uni1F11 uni1F12 uni1F13 uni1F14 uni1F15 uni1F72];

pos @LEFT_CLASS_0_3 @RIGHT_CLASS_39_3 0;
pos @LEFT_CLASS_0_3 @RIGHT_CLASS_40_3 0;
pos @LEFT_CLASS_0_3 @RIGHT_CLASS_41_3 0;
pos @LEFT_CLASS_0_3 @RIGHT_CLASS_42_3 0;
pos @LEFT_CLASS_1_3 @RIGHT_CLASS_1_3 -17;
pos @LEFT_CLASS_1_3 @RIGHT_CLASS_2_3 -18;
pos @LEFT_CLASS_1_3 @RIGHT_CLASS_3_3 -88;
pos @LEFT_CLASS_1_3 @RIGHT_CLASS_4_3 -5;
```

## spot

```
spot -t GSUB=7 test.otf > gsub.txt
```

```
# Printing lookup 6 in feature 'c2sc' for script 'DFLT' language 'dflt'.
# ----- SubTable 0
sub exclam by exclam.sc;
sub question by question.sc;
sub ampersand by ampersand.sc;
sub zero by zero.taboldstyle;
sub one by one.taboldstyle;
sub two by two.taboldstyle;
sub three by three.taboldstyle;
sub four by four.taboldstyle;
sub A by A.sc;
sub B by B.sc;
sub C by C.sc;
sub D by D.sc;
sub E by E.sc;

# Printing lookup 26 in feature 'dlig' for script 'DFLT' language 'dflt'.
# ----- SubTable 0
sub c t by c_t;
sub s p by s_p;
sub s t by s_t;

# Printing lookup 19 in feature 'dnom' for script 'DFLT' language 'dflt'.
# ----- SubTable 0
sub dollar by dollar.denominator;
sub parenleft by parenleft.denominator;
sub parenright by parenright.denominator;
sub zero by zero.denominator;
sub one by one.denominator;
sub two by two.denominator;
sub three by three.denominator;

# Printing lookup 30 in feature 'ornm' for script 'DFLT' language 'dflt'.
# ----- SubTable 0
sub bullet from [orn.001 orn.002 orn.003 orn.004 orn.005 orn.006 orn.007];

# Printing lookup 20 in feature 'ss01' for script 'DFLT' language 'dflt'.
# ----- SubTable 0
sub K by K.alt;
sub R by R.alt;
sub k by k.alt;

# Printing lookup 21 in feature 'ss02' for script 'DFLT' language 'dflt'.
# ----- SubTable 0
except [a e m n r] ' [A B C D E F G H I J K L M N O];
# ----- SubTable 1
sub [a e m n r]' by [a.end e.end m.end n.end r.end];





# Printing lookup 23 in feature 'liga' for script 'DFLT' language 'dflt'.
# ----- SubTable 0
sub f f i by f_f_i;
sub f i by f_i;




# Printing lookup 24 in feature 'liga' for script 'DFLT' language 'dflt'.
# ----- SubTable 0
sub T h by T_h;
sub f f b by f_f_b;
sub f f h by f_f_h;
sub f f j by f_f_j;
sub f f k by f_f_k;
sub f f l by f_f_l;
```

# spot

```
spot -P liga test.otf > liga.ps
```





**Script: 'DFLT' Language: 'dflt' LookupIndex: 23**





 +  +  →   
f@71            f@71            i@74            f\_f\_i@271





 +  →   
f@71            i@74            f\_i@277





**Script: 'DFLT' Language: 'dflt' LookupIndex: 24**





 +  →   
T@53            h@73            T\_h@263





 +  +  →   
f@71            f@71            b@67            f\_f\_b@269

 +  +  →   
f@71            f@71            h@73            f\_f\_h@270

 +  +  →   
f@71            f@71            j@75            f\_f\_j@272

 +  +  →   
f@71            f@71            k@76            f\_f\_k@273

 +  +  →   
f@71            f@71            l@77            f\_f\_l@274

 +  +  →   
f@71            f@71            t@85            f\_f\_t@275

 +  →   
f@71            b@67            f\_b@267

## CompareFamily

comparefamily -d /Folder\_TestFont -st 3

Single Face Test 3: Check that name ID 4 (Full Name) starts with same string as Preferred Family Name, and is the same as the CFF font Full Name.

Error: Mac platform Full Name name id 4) 'Test Pro' is not the same as the font CFF table Full Name, 'Test Pro Regular', for Font TestPro-Regular.  
Error: Mac platform Full Name name id 4) 'Test Pro Italic' is not the same as the font CFF table Full Name, 'Test Pro Italic', for Font TestPro-It.  
Error: Mac platform Full Name name id 4) 'Test Pro Bold Italic' is not the same as the font CFF table Full Name, 'Test Pro Bold Italic', for Font TestPro-BoldIt.  
Error: Mac platform Full Name name id 4) 'Test Pro Caption' is not the same as the font CFF table Full Name, 'Test Pro Caption', for Font TestPro-Capt.  
Error: Mac platform Full Name name id 4) 'Test Pro Italic Caption' is not the same as the font CFF table Full Name, 'Test Pro Italic Caption', for Font TestPro-ItCapt.  
Error: Mac platform Full Name name id 4) 'Test Pro Bold Caption' is not the same as the font CFF table Full Name, 'Test Pro Bold Caption', for Font TestPro-BoldCapt.  
Error: Mac platform Full Name name id 4) 'Test Pro Bold Italic Caption' is not the same as the font CFF table Full Name, 'Test Pro Bold Italic Caption', for Font TestPro-BoldItCapt.  
Error: Mac platform Full Name name id 4) 'Test Pro Cond' is not the same as the font CFF table Full Name, 'Test Pro Condensed', for Font TestPro-Cn.  
Error: Mac platform Full Name name id 4) 'Test Pro Cond Italic' is not the same as the font CFF table Full Name, 'Test Pro Condensed Italic', for Font TestPro-CnIt.  
Error: Mac platform Full Name name id 4) 'Test Pro Bold Cond' is not the same as the font CFF table Full Name, 'Test Pro Bold Condensed', for Font TestPro-BoldCn.

comparefamily -d /Folder\_TestFont -ft 4

Family Test 4: Family-wide 'size' feature checks.

Warning: in family Test Pro, the 'size' group (id 7, menu name Bold Italic) has 3 members, while the group (id 6, menu name Semibold Condensed) has 4 members.  
(sub group id 7, menu name Bold Italic, fonts: ['TestPro-BoldIt', 'TestPro-BoldItCapt', 'TestPro-BoldItDisp'])  
(sub group id 6, menu name Semibold Condensed, fonts: ['TestPro-SemiboldCn', 'TestPro-SemiboldCnCapt', 'TestPro-SemiboldCnDisp', 'TestPro-SemiboldCnSubh'])  
Error: design ranges for size subgroup ID 7, size menu Bold Italic in family Test Pro are not contiguous.  
previous range: 84 - 130 for TestPro-BoldIt, next range: 84 - 130 for TestPro-BoldItCapt. sub group ID Bold Italic.  
previous range: 84 - 130 for TestPro-BoldItCapt, next range: 199 - 720 for TestPro-BoldItDisp. sub group ID Bold Italic.

comparefamily -d /Folder\_TestFont -ft 21

FamilyTest 21: Check that all faces in the Compatible Family group have the same BlueShift value.

Note: These two fonts do not have the same values of BlueShift for Test Pro SmBd Capt  
Font 1: TestPro-SemiboldCapt  
BlueShift: 5.1  
Font 2: TestPro-SemiboldItCapt  
BlueShift: 7

Note: These two fonts do not have the same values of BlueShift for Test Pro Med Subh  
Font 1: TestPro-MediumSubh  
BlueShift: 5.1  
Font 2: TestPro-MediumItSubh  
BlueShift: 7

## CompareFamily • *List of Single face tests*

1. Length overrun check for name ID 18. Max 63 characters, must be unique within 31 chars.
2. Length overrun check for name IDs 1, 2, 4, 16, 17. Max 63 characters.
3. Check that name ID 4 (Full Name) starts with same string as Preferred Family Name, and is the same as the CFF font Full Name.
4. Version name string matches release font criteria and head table value.
5. Check that CFF PostScript name is same as name table name ID 6, and Windows platform table name ID 6 is the same as Mac name ID 6.
6. Check that Copyright, Trademark, Designer note, and foundry values are present, and match default values.
7. (Reserved)
8. Check SubFamily Name (name ID 2) for Regular Style, Bold Style, Italic Style, and BoldItalic Style.
9. Check that no OS/2.usWeightClass is less than 250.
10. Check that no Bold Style face has OS/2.usWeightClass of less than 500.
11. Check that BASE table exists, and has reasonable values.
12. Check that Italic style is set when post table italic angle is non-zero, and that italic angle is reasonable.
13. Warn if post.isFixedPitch is set when font is not monospaced.
14. Warn if Bold/Italic style bits do not match between CFF table, head Table and OS/2 Table.
15. Warn if Font BBox x/y coordinates are improbable, or differ between head table and CFF.
16. Check values of Ascender and Descender vs em-square.
17. Verify that all tabular glyphs have the same width.
18. Hint Check. Verify that there is at least one hint for each charstring in each font, and that no charstring is > 32K limit for Mac OSX 10.3.x and earlier.
19. Warn if the Unicode cmap table does not exist, or there are double mapped glyphs in the Unicode cmap table.
20. Warn if there are double spaces in the name table font menu names.
21. Warn if there trailing or leading spaces in the name table font menu names.
22. Warn if any ligatures have a width which not larger than the width of the first glyph, or, if first glyph is not in font, if the RSB is negative.
23. Warn if any accented glyphs have a width different than the base glyph.
24. Warn if font has 'size' feature, and design size is not in specified range.
25. Check that fonts do not have UniqueID, UID, or XUID in CFF table.
26. Glyph name checks.
27. Check strikeout/subscript/superscript positions.
28. Check font OS/2 code pages for a common set of code page bits.
29. (Reserved)
30. Check that there are no more than 7 pairs of BlueValues and FamilyBlues in a font, and there is an even number of values.
31. Check that there are no more than 5 pairs of OtherBlues and FamilyOtherBlues in a font, and there is an even number of values.
32. Check that all fonts have blue value pairs with first integer is less than or equal to the second integer in pairs.
33. Check that Bottom Zone blue value pairs and Top Zone blue value pairs are at least  $(2 \times \text{BlueFuzz} + 1)$  unit apart in a font.
34. Check that the difference between numbers in blue value pairs meet the requirement.

## CompareFamily • *List of Family tests*

1. Verify that each group of fonts with the same nameID 1 has maximum of 4 fonts.
2. Check that the Compatible Family group has same name IDs in all languages except for the compatible names 16, 17 and 18.
3. Check that the Compatible Family group has same Preferred Family name (name ID 16) in all other languages.
4. Family-wide 'size' feature checks.
5. Check that style settings for each face is unique within Compatible Family group, in all languages.
6. Check that the Compatible Family group has a base font and at least two faces, and check if weight class is valid.
7. Check that all faces in the Preferred Family group have the same Copyright and Trademark string.
8. Check the Compatible Family group style vs OS/2.usWeightClass settings. Max 2 usWeightClass allowed.
9. Check that all faces in the Compatible Family group have the same OS/2.usWidthClass value.
10. Check that if all faces in family have a Panose number, and that CFF ISFixedPtch matches the Panose monospace setting.
11. Check that Mac and Windows menu names differ for all but base font, and are the same for the base font.
12. Check that GSUB/GPOS script and language feature lists are the same in all faces, and that DFLT/dflt and latn/dflt are present.
13. Check that no two faces in a preferred group have the same weight/width/Italic-style values when the OS/2 table fsSelection bit 8 (WEIGHT\_WIDTH\_SLOPE\_ONLY) is set.
14. Check that all faces in a preferred group have the same fsType embedding values.
15. Check that all faces in a preferred group have the same underline position and width.
16. Check that for all faces in a preferred family group, that the width of any glyph is not more than 3 times the width of the same glyph in any other face.
17. Check that new fonts have OS/2 table version 4, and that previously shipping fonts do not.
18. Check that all faces in a Compatible Family group have the same array size of BlueValues and OtherBlues within a Compatible Family Name Italic or Regular sub-group of the family.
19. Check that all faces in the Preferred Family group have the same values of FamilyBlues and FamilyOtherBlues, and are valid.
20. Check that all faces in the Compatible Family group have the same BlueScale value.
21. Check that all faces in the Compatible Family group have the same BlueShift value.