

Universal Multiple-Octet Coded Character Set
International Organization for Standardization
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Международная организация по стандартизации

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Title: Tangut Radical/Stroke Corrections

Source: Andrew West

Status: Individual Contribution

Action: For consideration by JTC1/SC2/WG2 and UTC

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I recently carried out a review of the radical/stroke values under the kRSTUnicode key in TangutSources.txt (Unicode 17.0 alpha version). I have already reported as feedback to [PRI 514](#) an incorrect radical/stroke value for U+17D0B (198.6 to 783.7 due to a glyph change in Unicode 16.0) and four incorrect radical assignments for Tangut ideographs being added in Unicode 17.0 (187F9, 18D0A, 18D0B, and 18D0F). I have additionally noticed that 197 Tangut ideographs have an incorrect radical and/or stroke count value dating back to Unicode 14.0. Five characters were added or modified in Unicode 13.0 (17F8A, 17FA5, 18D01, 18D05, and 18D06), and 192 characters had their glyphs modified in Unicode 14.0, but the corresponding changes to the Radical/Stroke data for these 197 characters were inadvertently not applied in TangutSources.txt. The glyph changes and corresponding radical/stroke values are listed in Table 1 below, and a plain text listing of new kRSTUnicode values is appended at the end of this document.

Table 1: Radical/Stroke Corrections for Tangut Ideographs

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
1709D	𐰇	𐰇	2.12	2.13
171BF	𐰇	𐰇	17.16	17.15
1732C	𐰇	𐰇	36.17	36.18
173C6	𐰇	𐰇	65.12	65.13
173C9	𐰇	𐰇	68.8	763.8

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
173CE	𠂔	𠂔	68.9	763.9
173D2	𠂕	𠂕	68.9	763.9
173D3	𠂖	𠂖	68.9	763.9
173D5	𠂗	𠂗	68.10	147.11
173D8	𠂘	𠂘	68.10	763.10
173DB	𠂙	𠂙	68.11	763.11
173DC	𠂚	𠂚	68.11	763.11
173E0	𠂛	𠂛	68.11	763.11
173E1	𠂜	𠂜	68.11	763.11
173E2	𠂝	𠂝	68.11	763.11
173E5	𠂞	𠂞	68.12	763.12
173E8	𠂟	𠂟	68.12	763.12
173E9	𠂠	𠂠	68.12	763.12
173EB	𠂡	𠂡	68.12	763.12
173EC	𠂢	𠂢	68.12	763.12
173ED	𠂣	𠂣	68.12	763.12

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
173F0	𤇀	𤇀	68.12	763.12
173F2	𤇂	𤇂	68.12	763.12
173F4	𤇄	𤇄	68.13	763.13
173F5	𤇅	𤇅	68.13	763.13
173F7	𤇇	𤇇	68.14	763.14
173F8	𤇈	𤇈	68.14	763.14
173FB	𤇋	𤇋	68.15	763.15
173FF	𤇏	𤇏	68.16	763.16
17401	𤇑	𤇑	68.18	763.18
17402	𤇒	𤇒	68.18	763.18
17403	𤇓	𤇓	68.20	763.20
174F4	𤇛	𤇛	75.14	75.13
174F6	𤇝	𤇝	75.14	75.13
17729	𤇟	𤇟	106.14	106.13
177DA	𤇡	𤇡	107.11	107.10
17869	𤇩	𤇩	113.13	230.13

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
179CC	𠂔	𠂔	141.12	141.11
17A87	𠂕	𠂕	141.15	141.14
17AF0	𠂖	𠂖	141.21	141.20
17CC2	𠂗	𠂗	188.14	188.13
17CFC	𠂘	𠂘	194.13	194.12
17D25	𠂙	𠂙	204.9	204.8
17DC0	𠂚	𠂚	217.14	217.13
17EA8	𠂛	𠂛	260.10	260.11
17F88	𠂜	𠂜	267.8	766.8
17F89	𠂝	𠂝	267.8	766.8
17F8A	𠂞	𠂞	267.9	766.9
17F8D	𠂟	𠂟	267.9	766.9
17F90	𠂠	𠂠	267.10	766.10
17F91	𠂡	𠂡	267.10	766.10
17F93	𠂢	𠂢	267.10	766.10
17F94	𠂣	𠂣	267.10	766.10

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
17F96	𠂔	𠂔	267.10	766.10
17F98	𠂕	𠂕	267.10	766.10
17F9A	𠂖	𠂖	267.10	766.10
17F9C	𠂗	𠂗	267.11	766.11
17F9E	𠂘	𠂘	267.11	766.11
17FA5	𠂙	𠂙	267.11	766.11
17FA7	𠂚	𠂚	267.11	766.11
17FAA	𠂛	𠂛	267.11	766.11
17FAB	𠂜	𠂜	267.12	766.12
17FAE	𠂝	𠂝	267.12	766.12
17FB9	𠂞	𠂞	267.13	766.13
17FBA	𠂟	𠂟	267.13	766.13
17FBB	𠂠	𠂠	267.13	766.13
17FBE	𠂡	𠂡	267.13	766.13
17FBF	𠂢	𠂢	267.13	766.13
17FC0	𠂣	𠂣	267.13	766.13

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
17FC2	𪗇	𪗇	267.13	766.13
17FC5	𪗉	𪗉	267.13	766.13
17FC6	𪗊	𪗊	267.13	766.13
17FCA	𪗌	𪗌	267.13	766.13
17FCF	𪗏	𪗏	267.14	766.14
17FD0	𪗐	𪗐	267.14	766.14
17FD2	𪗒	𪗒	267.14	766.14
17FD4	𪗔	𪗔	267.14	766.14
17FD5	𪗕	𪗕	267.14	766.14
17FDC	𪗗	𪗗	267.14	766.14
17FDE	𪗘	𪗘	267.14	766.14
17FDF	𪗙	𪗙	267.15	766.15
17FE0	𪗚	𪗚	267.15	766.15
17FE2	𪗜	𪗜	267.15	766.15
17FE3	𪗝	𪗝	267.15	766.15
17FE7	𪗟	𪗟	267.15	766.15

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
17FEA	𪗇	𪗇	267.15	766.15
17FEE	𪗈	𪗈	267.15	766.15
17FEF	𪗉	𪗉	267.15	766.15
17FF0	𪗊	𪗊	267.15	766.15
17FF1	𪗋	𪗋	267.16	766.16
17FF3	𪗌	𪗌	267.16	766.16
17FF7	𪗍	𪗍	267.17	766.17
17FF8	𪗎	𪗎	267.18	766.18
17FF9	𪗏	𪗏	267.18	766.18
17FFE	𪗐	𪗐	267.20	766.20
1802C	𪗑	𪗑	278.11	767.11
1802D	𪗒	𪗒	278.11	767.11
18030	𪗓	𪗓	278.12	767.12
18031	𪗔	𪗔	278.12	767.12
18032	𪗕	𪗕	278.12	767.12
18033	𪗖	𪗖	278.12	767.12

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
18034	𠂔	𠂔	278.13	767.13
18035	𠂕	𠂕	278.13	767.13
18037	𠂖	𠂖	278.13	767.13
18038	𠂗	𠂗	278.13	767.13
18039	𠂘	𠂘	278.13	767.13
1803A	𠂙	𠂙	278.13	767.13
1803B	𠂚	𠂚	278.14	767.14
1803C	𠂛	𠂛	278.14	767.14
1803D	𠂜	𠂜	278.14	767.14
1803F	𠂝	𠂝	278.15	767.15
18064	𠂞	𠂞	285.11	285.10
18111	𠂟	𠂟	308.15	308.16
1812F	𠂠	𠂠	316.7	768.7
18130	𠂡	𠂡	316.8	768.8
18132	𠂢	𠂢	316.9	768.9
18133	𠂣	𠂣	316.9	768.9

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
18134	𠂔	𠂔	316.9	768.9
18135	𠂕	𠂕	316.9	768.9
18137	𠂗	𠂗	316.10	768.10
18138	𠂘	𠂘	316.10	768.10
1813A	𠂙	𠂙	316.10	768.10
1813B	𠂚	𠂚	316.10	768.10
1813C	𠂛	𠂛	316.11	768.11
1813D	𠂜	𠂜	316.11	768.11
1813F	𠂝	𠂝	316.11	768.11
18140	𠂞	𠂞	316.11	768.11
18141	𠂟	𠂟	316.11	768.11
18142	𠂠	𠂠	316.11	768.11
18143	𠂡	𠂡	316.11	768.11
18144	𠂢	𠂢	316.11	768.11
18145	𠂣	𠂣	316.11	768.11
18149	𠂤	𠂤	316.11	768.11

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
1814A	𠂔	𠂔	316.12	454.12
1814B	𠂕	𠂕	316.12	768.12
1814C	𠂖	𠂖	316.12	768.12
1814D	𠂗	𠂗	316.12	768.12
1814E	𠂘	𠂘	316.12	768.12
1814F	𠂙	𠂙	316.12	768.12
18150	𠂚	𠂚	316.12	768.12
18151	𠂛	𠂛	316.12	768.12
18152	𠂜	𠂜	316.12	768.12
18154	𠂝	𠂝	316.12	768.12
18156	𠂞	𠂞	316.12	768.12
18157	𠂟	𠂟	316.12	768.12
18158	𠂠	𠂠	316.12	768.12
18159	𠂡	𠂡	316.13	768.13
1815A	𠂢	𠂢	316.13	768.13
1815B	𠂣	𠂣	316.13	768.13

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
1815C	𠂔	𠂔	316.13	768.13
1815D	𠂕	𠂕	316.13	768.13
1815E	𠂖	𠂖	316.13	768.13
1815F	𠂗	𠂗	316.13	768.13
18161	𠂘	𠂘	316.13	768.13
18162	𠂙	𠂙	316.13	768.13
18163	𠂚	𠂚	316.13	768.13
18164	𠂛	𠂛	316.14	768.14
18165	𠂜	𠂜	316.14	768.14
18167	𠂝	𠂝	316.14	768.14
18168	𠂞	𠂞	316.14	768.14
18169	𠂟	𠂟	316.14	768.14
1816B	𠂠	𠂠	316.14	768.14
1816E	𠂡	𠂡	316.15	768.15
18170	𠂢	𠂢	316.15	768.15
18172	𠂣	𠂣	316.15	768.15

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
18173	𪗇	𪗇	316.15	768.15
18174	𪗈	𪗈	316.16	768.16
18175	𪗈	𪗈	316.16	768.16
18177	𪗉	𪗉	316.17	768.17
18178	𪗉	𪗉	316.17	768.17
18179	𪗊	𪗊	316.18	768.18
1817A	𪗊	𪗊	316.18	768.18
1817B	𪗋	𪗋	316.19	768.19
1817D	𪗍	𪗍	316.22	768.22
1819A	𪗛	𪗛	327.11	327.10
182E6	𪗞	𪗞	412.10	301.9
18380	𪗟	𪗟	431.13	431.14
183FC	𪗟	𪗟	436.12	436.11
18438	𪗟	𪗟	436.16	436.15
1846F	𪗟	𪗟	449.12	449.11
184B3	𪗟	𪗟	462.12	462.11

Code Point	Old Glyph (pre-14.0)	Current Glyph (17.0 alpha)	Radical/Stroke (17.0 alpha)	Corrected Radical/Stroke
18557	𪗇	𪗇	516.13	516.12
185A5	𪗊	𪗊	542.14	543.14
185A6	𪗋	𪗋	542.14	543.14
185A8	𪗍	𪗍	542.15	543.15
185AB	𪗏	𪗏	542.15	543.15
185C0	𪗓	𪗓	542.17	543.17
18702	𪗚	𪗚	651.11	651.10
18761	𪗞	𪗞	688.11	688.10
18762	𪗟	𪗟	688.15	688.14
187B0	𪗛	𪗛	719.16	691.15
187D0	𪗝	𪗝	736.12	736.11
187D1	𪗞	𪗞	736.17	736.16
187D2	𪗟	𪗟	736.21	736.20
18D01	𪗚	𪗚	87.9	764.9
18D05	𪗞	𪗞	316.10	768.10
18D06	𪗟	𪗟	316.11	768.11

Appendix: Listing of new kRSTUnicode values

U+1709D	kRSTUnicode	2.13
U+171BF	kRSTUnicode	17.15
U+1732C	kRSTUnicode	36.18
U+173C6	kRSTUnicode	65.13
U+173C9	kRSTUnicode	763.8
U+173CE	kRSTUnicode	763.9
U+173D2	kRSTUnicode	763.9
U+173D3	kRSTUnicode	763.9
U+173D5	kRSTUnicode	147.11
U+173D8	kRSTUnicode	763.10
U+173DB	kRSTUnicode	763.11
U+173DC	kRSTUnicode	763.11
U+173E0	kRSTUnicode	763.11
U+173E1	kRSTUnicode	763.11
U+173E2	kRSTUnicode	763.11
U+173E5	kRSTUnicode	763.12
U+173E8	kRSTUnicode	763.12
U+173E9	kRSTUnicode	763.12
U+173EB	kRSTUnicode	763.12
U+173EC	kRSTUnicode	763.12
U+173ED	kRSTUnicode	763.12
U+173F0	kRSTUnicode	763.12
U+173F2	kRSTUnicode	763.12
U+173F4	kRSTUnicode	763.13
U+173F5	kRSTUnicode	763.13
U+173F7	kRSTUnicode	763.14
U+173F8	kRSTUnicode	763.14
U+173FB	kRSTUnicode	763.15
U+173FF	kRSTUnicode	763.16
U+17401	kRSTUnicode	763.18
U+17402	kRSTUnicode	763.18
U+17403	kRSTUnicode	763.20
U+174F4	kRSTUnicode	75.13
U+174F6	kRSTUnicode	75.13
U+17729	kRSTUnicode	106.13
U+177DA	kRSTUnicode	107.10
U+17869	kRSTUnicode	230.13
U+179CC	kRSTUnicode	141.11
U+17A87	kRSTUnicode	141.14
U+17AF0	kRSTUnicode	141.20
U+17CC2	kRSTUnicode	188.13
U+17CFC	kRSTUnicode	194.12
U+17D25	kRSTUnicode	204.8
U+17DC0	kRSTUnicode	217.13
U+17EA8	kRSTUnicode	260.11
U+17F88	kRSTUnicode	766.8
U+17F89	kRSTUnicode	766.8
U+17F8A	kRSTUnicode	766.9

U+17F8D	kRSTUnicode	766.9
U+17F90	kRSTUnicode	766.10
U+17F91	kRSTUnicode	766.10
U+17F93	kRSTUnicode	766.10
U+17F94	kRSTUnicode	766.10
U+17F96	kRSTUnicode	766.10
U+17F98	kRSTUnicode	766.10
U+17F9A	kRSTUnicode	766.10
U+17F9C	kRSTUnicode	766.11
U+17F9E	kRSTUnicode	766.11
U+17FA5	kRSTUnicode	766.11
U+17FA7	kRSTUnicode	766.11
U+17FAA	kRSTUnicode	766.11
U+17FAB	kRSTUnicode	766.12
U+17FAE	kRSTUnicode	766.12
U+17FB9	kRSTUnicode	766.13
U+17FBA	kRSTUnicode	766.13
U+17FBB	kRSTUnicode	766.13
U+17FBE	kRSTUnicode	766.13
U+17FBF	kRSTUnicode	766.13
U+17FC0	kRSTUnicode	766.13
U+17FC2	kRSTUnicode	766.13
U+17FC5	kRSTUnicode	766.13
U+17FC6	kRSTUnicode	766.13
U+17FCA	kRSTUnicode	766.13
U+17FCF	kRSTUnicode	766.14
U+17FD0	kRSTUnicode	766.14
U+17FD2	kRSTUnicode	766.14
U+17FD4	kRSTUnicode	766.14
U+17FD5	kRSTUnicode	766.14
U+17FDC	kRSTUnicode	766.14
U+17FDE	kRSTUnicode	766.14
U+17FDF	kRSTUnicode	766.15
U+17FE0	kRSTUnicode	766.15
U+17FE2	kRSTUnicode	766.15
U+17FE3	kRSTUnicode	766.15
U+17FE7	kRSTUnicode	766.15
U+17FEA	kRSTUnicode	766.15
U+17FEE	kRSTUnicode	766.15
U+17FEF	kRSTUnicode	766.15
U+17FF0	kRSTUnicode	766.15
U+17FF1	kRSTUnicode	766.16
U+17FF3	kRSTUnicode	766.16
U+17FF7	kRSTUnicode	766.17
U+17FF8	kRSTUnicode	766.18
U+17FF9	kRSTUnicode	766.18
U+17FFE	kRSTUnicode	766.20
U+1802C	kRSTUnicode	767.11
U+1802D	kRSTUnicode	767.11
U+18030	kRSTUnicode	767.12

U+18031	kRSTUnicode	767.12
U+18032	kRSTUnicode	767.12
U+18033	kRSTUnicode	767.12
U+18034	kRSTUnicode	767.13
U+18035	kRSTUnicode	767.13
U+18037	kRSTUnicode	767.13
U+18038	kRSTUnicode	767.13
U+18039	kRSTUnicode	767.13
U+1803A	kRSTUnicode	767.13
U+1803B	kRSTUnicode	767.14
U+1803C	kRSTUnicode	767.14
U+1803D	kRSTUnicode	767.14
U+1803F	kRSTUnicode	767.15
U+18064	kRSTUnicode	285.10
U+18111	kRSTUnicode	308.16
U+1812F	kRSTUnicode	768.7
U+18130	kRSTUnicode	768.8
U+18132	kRSTUnicode	768.9
U+18133	kRSTUnicode	768.9
U+18134	kRSTUnicode	768.9
U+18135	kRSTUnicode	768.9
U+18137	kRSTUnicode	768.10
U+18138	kRSTUnicode	768.10
U+1813A	kRSTUnicode	768.10
U+1813B	kRSTUnicode	768.10
U+1813C	kRSTUnicode	768.11
U+1813D	kRSTUnicode	768.11
U+1813F	kRSTUnicode	768.11
U+18140	kRSTUnicode	768.11
U+18141	kRSTUnicode	768.11
U+18142	kRSTUnicode	768.11
U+18143	kRSTUnicode	768.11
U+18144	kRSTUnicode	768.11
U+18145	kRSTUnicode	768.11
U+18149	kRSTUnicode	768.11
U+1814A	kRSTUnicode	454.12
U+1814B	kRSTUnicode	768.12
U+1814C	kRSTUnicode	768.12
U+1814D	kRSTUnicode	768.12
U+1814E	kRSTUnicode	768.12
U+1814F	kRSTUnicode	768.12
U+18150	kRSTUnicode	768.12
U+18151	kRSTUnicode	768.12
U+18152	kRSTUnicode	768.12
U+18154	kRSTUnicode	768.12
U+18156	kRSTUnicode	768.12
U+18157	kRSTUnicode	768.12
U+18158	kRSTUnicode	768.12
U+18159	kRSTUnicode	768.13
U+1815A	kRSTUnicode	768.13

U+1815B	kRSTUnicode	768.13
U+1815C	kRSTUnicode	768.13
U+1815D	kRSTUnicode	768.13
U+1815E	kRSTUnicode	768.13
U+1815F	kRSTUnicode	768.13
U+18161	kRSTUnicode	768.13
U+18162	kRSTUnicode	768.13
U+18163	kRSTUnicode	768.13
U+18164	kRSTUnicode	768.14
U+18165	kRSTUnicode	768.14
U+18167	kRSTUnicode	768.14
U+18168	kRSTUnicode	768.14
U+18169	kRSTUnicode	768.14
U+1816B	kRSTUnicode	768.14
U+1816E	kRSTUnicode	768.15
U+18170	kRSTUnicode	768.15
U+18172	kRSTUnicode	768.15
U+18173	kRSTUnicode	768.15
U+18174	kRSTUnicode	768.16
U+18175	kRSTUnicode	768.16
U+18177	kRSTUnicode	768.17
U+18178	kRSTUnicode	768.17
U+18179	kRSTUnicode	768.18
U+1817A	kRSTUnicode	768.18
U+1817B	kRSTUnicode	768.19
U+1817D	kRSTUnicode	768.22
U+1819A	kRSTUnicode	327.10
U+182E6	kRSTUnicode	301.9
U+18380	kRSTUnicode	431.14
U+183FC	kRSTUnicode	436.11
U+18438	kRSTUnicode	436.15
U+1846F	kRSTUnicode	449.11
U+184B3	kRSTUnicode	462.11
U+18557	kRSTUnicode	516.12
U+185A5	kRSTUnicode	543.14
U+185A6	kRSTUnicode	543.14
U+185A8	kRSTUnicode	543.15
U+185AB	kRSTUnicode	543.15
U+185C0	kRSTUnicode	543.17
U+18702	kRSTUnicode	651.10
U+18761	kRSTUnicode	688.10
U+18762	kRSTUnicode	688.14
U+187B0	kRSTUnicode	691.15
U+187D0	kRSTUnicode	736.11
U+187D1	kRSTUnicode	736.16
U+187D2	kRSTUnicode	736.20
U+18D01	kRSTUnicode	764.9
U+18D05	kRSTUnicode	768.10
U+18D06	kRSTUnicode	768.11