

ISO/IEC JTC1/SC2/WG2 N 3408

Date: 2008-03-21

**ISO/IEC JTC1/SC2/WG2
Coded Character Set
Secretariat: Japan (JISC)**

Doc. Type: Input to ISO/IEC 10646

Title: Representation of CJK Unified Ideographs in multi-column
Source: Michel Suignard, project editor
Project: JTC1 02.10646
Status: For review by WG2
Date: 2008-03-21
Distribution: WG2
Reference:
Medium:

The need to publish a new edition of ISO/IEC 10646 creates the requirement to republish all code charts containing CJK Unified Ideographs. However, sources have grown from eight to nine with the addition of the M source (Macao SAR) since the last edition: ISO/IEC 10646:2003. In addition, even in the last edition, three sources: KP (Democratic People Republic of Korea), H (Hong-Kong SAR), and U (UTC) were not adequately represented in the multi-column charts. However, is not practical to show all nine sources for all CJK characters because no character has all nine sources, and very few characters go beyond 6 sources. Furthermore, the CJK extensions (A, B, and C) have even less sources, calling for a more optimal format based on average number of sources for a given collection.

In fact, if one looks at the various CJK Unified collections, the number optimal of sources to be shown varies from 6 (CJK Unified Ideograph: 4E00-9FC5), 4 (CJK Unified Ideographs Extension A 3400-4DB5), and 2 (CJK Unified Ideographs Extension B: 20000-2A6D6, and proposed CJK Unified Ideographs extension C: 2A700-2B734).

The following pages show some examples of what could be done as a compromise between size and legibility. The main focus is to provide a more consistent amount of information per page, thus allowing a variable amount of columns per characters depending on the collections. Because the standard is typically not printed in its entirety anymore, paper preservation is not as critical; this in return allows some flexibility. In addition, some additional information is provided such as the radical image and the ‘radical, stroke’ count for each ideograph.

There are still some issues worth considering:

- For the main CJK Unified Ideographs collection (4E00-9FC5), should we preserve spatial positioning for the sources, therefore requiring frequently 2 rows when a source is not part of the first six sources, or should we show these additional sources highlighted in the same row? (The author prefers the second solution)
- Can we get away with the spatial positioning for all other collections, allowing a compression to 4 or even 2 sources per characters (with exceptions dealt through additional rows)? (The author is in favor)
- Some G sources (such as KangXi: G_KX) have very long labels. This can be accommodated by shortening to just the prefix (like ‘G_KX’) or allowing the first source (always G when existing) to bleed over the character

code position and pushing the radical.count info upward. Note that the source representation of the Japanese ARIB Kanji characters may have to be shortened to 9 characters instead of the current 11 to fit in the sub-column box. (The author prefers the second solution, that is preserving the information by tweaking the layout)

41D5	立	立	立	立
立 117.14	G_KX087321	T3-5A68	K3-2E29	KP1-63A4

- There are multiple ‘radical,stroke’ data sets. One has to be selected. The Unicode Unihan database contains such a data set. Ideally, the information should be added in the CJKU_SR.txt file.

The following pages show some samples:

- Format using large glyph: for reference only. Although the glyphs are large the amount of information per page is limited.
- Format using 2 columns per page with 6 sub-columns per characters allowing 6 sources per line. The first six sources are always represented in the same order if present (G, T, J, K, V, and KP) in the first line. If other sources exist (H, U, and M), they are represented in that order in a second line. The main issue with that format is that it is very wasteful in space when only 2 sources exits but on different lines (such as 4E04, 4E1A, and 4E1C in the example). This format allows about 32 characters per page (versus 48 for the current multi-column format for the main CJK Unified collection).
- Variant of the format above but representing the second line sources (H, U, and M) in holes in the first line starting from the right. These sources are highlighted to make clear that they are not related to the sub-column standard source. In the example, the H source is shown in the KP column for 4E04, 4E1A, 4E1C and the V column for 4E21. This format allows about 36 characters per page in the main CJK Unified collection.
- Format using 3 columns per page with 4 sub-columns per characters allowing 4 sources per line. The sources are represented in the order of appearance in the CJKU_SR.txt (G, T, J, K, V, H, KP, U, and M). This formats allows about 50-54 characters per page in the CJK Extension A collection (versus 48 for the current multi-column format for the same collection).
- Format using 5 columns per page with 2 sub-columns per characters allowing 4 sources per line. The sources are represented in the order of appearance in the CJKU_SR.txt (G, T, J, K, V, H, KP, U, and M). This formats allows about 80-90 characters per page in the CJK Extension B and Extension C collections (versus 128 for the current single-column format for Ext B and 32 for the multi-column format for Ext C).

Final note: the following examples use commercial fonts available to the author to represent source characters. Many sources were unavailable and are therefore not correctly represented. No claim is made about accuracy of these glyphs. It is assumed that appropriate fonts will be delivered to the contributing editors in charge of font production. The source info has been copied manually from CJKU_SR.txt, so the examples may contain mistakes. The real process will collect data directly from the file.

Format using large glyphs (2 Cols)

4E00	—	—	—	—	丈	丈
—					V1-4A25	KP0-E6DD
1.0	G0-523B	T1-4421	J0-306C	K0-6C69	—	
	—	—			4E09	三
	V1—4A21	KP0-FCD6			—	三
4E01	丁	丁	丁	丁	1.2	G0-487D
—					G0-487D	T1-4435
1.1	G0-3621	T1-4421	J0-437A	K0-6F4B	T1-4435	J0-3B30
	丁	丁			—	K0-5F32
	V1-4A22	KP0-E8B9			4E0A	上
4E02	亏	亏	亏		—	上
—					1.2	G0-494F
1.1	G5-3021	T4-2126	J1-3021		G0-494F	T1-4438
	七	七	七	七	V1-4A27	KP0-E1C2
4E03	七	七	七	七	—	下
—					1.2	G0-4F42
1.1	G0-465F	T1-4424	J0-3C37	K0-7652	G0-4F42	T1-4436
	七	七			V1-4A28	KP0-F2BA
	V1—4A23	KP0-EFA6			4E0C	兀
4E04	上	上	上	上	—	兀
—					1.2	G0-5822
1.1	GE-2121	T3-2126	J1-3022	H-9EB3	T2-2127	J1-3024
	下	下	下	下	V1-4A29	KP0-DFBE
4E05	下	下	下		—	不
—					1.3	G0-323B
1.1	GE-2122	T3-2125	J1-3023		T1-4462	J0-4954
	不	不	不	不	V1-4A21	KP0-FCD6
4E06	不	不			—	与
—					1.3	G0-536B
1.1	G1-7D3D	K2-2121			T2-212F	J0-4D3F
	与	与	与	与	V1-4A21	KP0-FCD6
4E07	万	万	万	万	—	与
—					1.3	G3-3021
1.2	G0-4D72	T2-2126	J0-4B7C	K0-5832	T2-212D	K2-2123
	与	与	与	与	4E0F	丐
	V1—4A24	KP0-DAB9			—	丐
4E08	丈	丈	丈	丈	1.3	G0-5549
—					T1-4437	J0-3E66
1.2	G0-5549	T1-4437	J0-3E66	K0-6D5B	K2-2124	

Format using additional rows to represent sources in non standard location (here: H source) (2 Cols)

4E00	一 一 一 一 一 一		4E11	丑 丑 丑 丑 丑 丑	
— 1.0	G0-523B T1-4421 J0-306C K0-6C69 V1-4A21 KP0-FCD6		— 1.3	G0-3373 T1-4460 J0-312F K0-7564 V1-4A2C KP0-EEC9	
4E01	丁 丁 丁 丁 丁 丁		4E12	刃 刃 刃 刃 刃 刃	
— 1.1	G0-3621 T1-4421 J0-437A K0-6F4B V1-4A22 KP0-E8B9		— 1.3	GE-2123 T4-2139 J1-3025	KP1-340E
4E02	亏 亏 亏		4E13	专	
— 1.1	G5-3021 T4-2126 J1-3021		— 1.3	G0-5728	
4E03	七 七 七 七 七 七		4E14	且 且 且 且 且 且	
— 1.1	G0-465F T1-4424 J0-3C37 K0-7652 V1-4A23 KP0-EFA6		— 1.4	G0-4752 T1-4562 J0-336E K0-7326 V1-4A2D KP0-ECA8	
4E04	上 上 上		4E15	丕 丕 丕 丕 丕 丕	
— 1.1	G0-523B T1-4421 J0-306C		— 1.4	G0-5287 T1-4561 J0-5023 K0-5D60 V1-4A2E KP0-DFC9	
	上	H-9EB3	4E16	世 世 世 世 世 世	
4E05	丁 丁 丁		4E17	卅 卅 卅 卅 卅 卅	
— 1.1	GE-2122 T3-2125 J1-3023		— 1.3	GE-2124 T4-2155 J0-5242	KP1-3413
4E06	厂	K2-2121	4E18	丘 丘 丘 丘 丘 丘	
— 1.1	G1-7D3D		— 1.4	G0-4770 T1-4563 J0-3556 K0-4E78 V1-4A30 KP0-D0DF	
4E07	万 万 万 万 万 万		4E19	丙 丙 丙 丙 丙 丙	
— 1.2	G0-4D72 T2-2126 J0-4B7C K0-5832 V1-4A24 KP0-DAB9		— 1.4	G0-317B T1-455F J0-4A3A K0-5C30 V1-4A31 KP0-DDF9	
4E08	丈 丈 丈 丈 丈 丈		4E1A	业	
— 1.2	G0-5549 T1-4437 J0-3E66 K0-6D5B V1-4A25 KP0-E6DD		— 1.4	G0-5235	
4E09	三 三 三 三 三 三		4E1B	从	
— 1.2	G0-487D T1-4435 J0-3B30 K0-5F32 V1-4A26 KP0-E1B5			H-9EB2	
4E0A	上 上 上 上 上 上		4E1C	东	
— 1.2	G0-494F T1-4438 J0-3E65 K0-5F3E V1-4A27 KP0-E1C2		— 1.4	G0-3454	
4E0B	下 下 下 下 下 下		4E1D	丝	
— 1.2	G0-4F42 T1-4436 J0-323C K0-793B V1-4A28 KP0-F2BA		— 1.4	G0-362B	
4E0C	开 开 开 开		4E1E	丞 丞 丞 丞 丞 丞	
— 1.2	G0-5822 T2-2127 J1-3024 K2-2122		— 1.5	G0-5829 T1-4722 J-3E67 K0-632A V1-4A32 KP0-E4EF	
4E0D	不 不 不 不 不 不		4E1F	丢 丢 丢 丢 丢 丢	
— 1.3	G0-323B T1-4462 J0-4954 K0-5C74 V1-4A29 KP0-DFBE		— 1.5	GE-2125 T1-4723 J1-3026 K1-6D4A	
4E0E	与 与 与 与 与 与				
— 1.3	G0-536B T2-212F J0-4D3F K2-2123 V1-4A2A KP0-FCD6				
4E0F	丐 丐 丐				
— 1.3	G3-3021 T2-212D K2-2124				
4E10	丐 丐 丐 丐 丐 丐				
— 1.3	G0-5824 T1-4461 J0-5022 K2-2125 V1-4A2B KP1-3409				

Format using highlight to represent sources in non standard location (here: H source) (2 Cols)

4E00	—	—	—	—	—	—	4E12	刃	刃	刃		刃	
— 1.0	G0-523B	T1-4421	J0-306C	K0-6C69	V1-4A21	KP0-FCD6	— 1.3	GE-2123	T4-2139	J1-3025		KP1-340E	
4E01	丁	丁	丁	丁	丁	丁	4E13	专					
— 1.1	G0-3621	T1-4421	J0-437A	K0-6F4B	V1-4A22	KP0-E8B9	— 1.3	G0-5728					
4E02	亏	亏	亏				4E14	且	且	且	且	且	
— 1.1	G5-3021	T4-2126	J1-3021				— 1.4	G0-4752	T1-4562	J0-336E	K0-7326	V1-4A2D	KP0-ECA8
4E03	七	七	七	七	七	七	4E15	丕	丕	丕	丕	丕	
— 1.1	G0-465F	T1-4424	J0-3C37	K0-7652	V1-4A23	KP0-EFA6	— 1.4	G0-5287	T1-4561	J0-5023	K0-5D60	V1-4A2E	KP0-DFC9
4E04	上	上	上				4E16	世	世	世	世	世	
— 1.1	G0-523B	T1-4421	J0-306C				— 1.4	G0-4A40	T1-4560	J0-4024	K0-6126	V1-4A2F	KP0-E5F9
4E05	丁	丁	丁				4E17	卅	卅	卅	卅	卅	
— 1.1	GE-2122	T3-2125	J1-3023				— 1.3	GE-2124	T4-2155	J0-5242			KP1-3413
4E06	厂		厂				4E18	丘	丘	丘	丘	丘	
— 1.1	G1-7D3D		K2-2121				— 1.4	G0-4770	T1-4563	J0-3556	K0-4E78	V1-4A30	KP0-D0DF
4E07	万	万	万	万	万	万	4E19	丙	丙	丙	丙	丙	
— 1.2	G0-4D72	T2-2126	J0-4B7C	K0-5832	V1-4A24	KP0-DAB9	— 1.4	G0-317B	T1-455F	J0-4A3A	K0-5C30	V1-4A31	KP0-DDF9
4E08	丈	丈	丈	丈	丈	丈	4E1A	业				业	
— 1.2	G0-5549	T1-4437	J0-3E66	K0-6D5B	V1-4A25	KP0-E6DD	— 1.4	G0-5235					H-9EB2
4E09	三	三	三	三	三	三	4E1B	从					
— 1.2	G0-487D	T1-4435	J0-3B30	K0-5F32	V1-4A26	KP0-E1B5	— 1.4	G0-3454					
4E0A	上	上	上	上	上	上	4E1C	东				东	
— 1.2	G0-494F	T1-4438	J0-3E65	K0-5F3E	V1-4A27	KP0-E1C2	— 1.4	G0-362B					H-9DD6
4E0B	下	下	下	下	下	下	4E1D	丝					
— 1.2	G0-4F42	T1-4436	J0-323C	K0-793B	V1-4A28	KP0-F2BA	— 1.4	G0-4B3F					
4E0C	开	开	开	开			4E1E	丞	丞	丞	丞	丞	
— 1.2	G0-5822	T2-2127	J1-3024	K2-2122			— 1.5	G0-5829	T1-4722	J0-3E67	K0-632A	V1-4A32	KP0-E4EF
4E0D	不	不	不	不	不	不	4E1F	丢	丢	丢	丢	丢	
— 1.3	G0-323B	T1-4462	J0-4954	K0-5C74	V1-4A29	KP0-DFBE	— 1.5	GE-2125	T1-4723	J1-3026	K1-6D4A		
4E0E	与	与	与	与	与	与	4E20	北	北				
— 1.3	G0-536B	T2-212F	J0-4D3F	K2-2123	V14A2A	KP0-FCD6	— 1.5	G5-3023	T3-2262				
4E0F	丐	丐	丐				4E21	丂	丂	丂	丂	丂	
— 1.3	G3-3021	T2-212D		K2-2124			— 1.5	GE-2126	T3-22612	J0-4E3E	K2-2126	H-994F	KP1-3415
4E10	丐	丐	丐	丐	丐	丐	4E22	丢	丢			丢	
— 1.3	G0-5824	T1-4461	J0-5022	K2-2125	V1-4A2B	KP1-3409	— 1.5	G0-362A	T3-2263				V1-4A33 KP1-3417
4E11	丑	丑	丑	丑	丑	丑	4E23	𠂇	𠂇	𠂇		𠂇	
— 1.3	G0-3373	T1-4460	J0-312F	K0-7564	V1-4A2C	KP0-EEC9	— 1.6	GE-2127	T4-2335	J1-3027			KP1-3419

Ext A format (3 Cols)

41C0 霽 霽 霽 穴 116.15 G5-5E61 T4-637C K3-2E22	41D1 婕 婕 婕 婕 立 117.8 G5-5E2A T4-3F5A K3-2E27 KP1-638A	41E3 筏 筏 筏 筏 竹 118.5 G5-6324 T4-337B K3-2E31 KP1-63E3
41C1 鮓 鮓 鮓 穴 116.17 G3-5F71 T4-6922 KP1-6366	41D2 璧 璧 璧 立 117.11 G5-5E2D T4-4563 JA-254B	41E4 篁 篁 篁 竹 118.5 G_KX0881 T3-3775
41C2 辛 辛 立 117.1 G_KX0870 T3-2434	41D3 璪 璪 璪 立 117.12 G3-5F52 T4-5752 KP1-639F	41E5 笮 笮 笮 竹 118.5 G7-2368 T6-4276
41C3 妃 妃 立 117.3 G_KX0870; T3-2A46	41D4 羸 羸 羸 立 117.13 G3-5F54 T4-5C3B K3-2E28	41E6 箴 箴 箴 竹 118.5 G3-6324 T4-3378 JA-7347
41C4 竝 竝 竝 立 117.3 GS-237B V0-3F51 H-994B	41D5 端 端 端 端 立 117.14 G_KX08732 T3-5A68 K3-2E29 KP1-63A4	41E7 篁 篁 篁 竹 118.6 G3-6363 T4-396D
41C5 戢 戢 戢 立 117.4 G3-5F4A T4-2A76 K3-2E22	41D6 筠 筠 筠 竹 118.3 G_KX08780 T5-2B21 K3-2E2A	41E8 篻 篻 篻 竹 118.6 G3-6371 T4-3974 KP1-63F9
41C6 斗 斗 斗 立 117.4 G-HZ T3-2E4A	41D7 筼 筼 筼 竹 118.4 G3-634E T4-2E75 KP1-63C3	41E9 篩 篩 篩 竹 118.6 G3-6366 T4-3971 KP1-641B
41C7 跂 跂 跂 立 117.5 GS-237A T3-3325	41D8 篧 篧 篧 篧 竹 118.4 G5-6276 T4-2E70 K3-2E2B KP1-63C8	41EA 篩 篩 篩 竹 118.6 G_KX0882; T3-3D74 V3-3649
41C8 跤 跤 跤 立 117.5 G3-5F4E T4-2E6D	41D9 篩 篩 竹 118.4 G_KX08782 T3-3328	41EB 篤 篤 篤 竹 118.6 G3-637D T4-3F58 KP1-6414
41C9 竊 竊 竊 立 117.5 G_HZ T3-3322	41DA 筍 筍 筍 竹 118.4 G5-6278 T4-2E77 K3-2E2C	41EC 篴 篴 篴 篴 竹 118.6 G3-636A T43972 K3-2E32 KP1-6409
41CA 竇 竇 竇 立 117.5 JA-2549 H-8E55	41DB 篧 篧 篧 篧 竹 118.4 G_KX08791; T3-3329 V2-7F4B H-8EFE	41ED 篭 篭 篭 篭 竹 118.6 G5-632D T3-3D7A H-8D5F KP1-6402
41CB 謌 謌 謌 立 117.6 G-KX0871C T5-3446 JA-254A	41DC 筼 筼 筼 筼 竹 118.4 G3-634F T4-2E73 K3-2E2D KP1-63B6	41EE 篤 篤 篤 篤 竹 118.6 G5-6334 T4-3975 JA-254D V2-7F50
41CC 眺 眺 眺 立 117.7 G_KX08711 T3-3D6F KP1-6386	41DD 篩 篩 竹 118.4 G3-634A T4-2E72	41F1 篦 篦 篦 KP1-641A
41CD 綰 綰 綰 綰 立 117.7 G3-5F4F T4-396A K3-2E23 KP1-6386	41DE 篧 篧 篧 篧 竹 118.5 G3-6355 T4-3376 K3-2E2E KP1-63D0	41EF 篦 篦 篦 篦 竹 118.6 G5-632E T3-3D73 H-8E59 KP1-641A
41CE 踵 踵 踵 踵 立 117.8 G5-5E28 T3-4348 K3-2E24 KP1-638D	41DF 筠 筠 筠 竹 118.5 G5-6327 T4-337D K3-2E2F	41F0 篦 篦 篦 竹 118.6 G3-6379 T4-396F KP1-640A
41CF 踰 踰 踰 踰 立 117.8 G3-5F50 T4-3F54 K3-2E26 H-994E KP1-6390	41E0 篧 篧 篧 篧 竹 118.5 G_KX08792; T3-3774 V0-3F71 KP1-63EB	41F1 篦 篦 篦 竹 118.6 G_KX0884 T6-4C5B JA-254E
41D0 跔 跔 跔 立 117.8 G3-5F51 T4-3F55 KP1-6389	41E1 筧 筧 筧 筧 竹 118.5 G_KX0880C T5-3448 JA-254C KP1-63E7	41F2 箴 箴 箴 竹 118.6 GS-233A T6-4C56
41E2 箴 箴 箴 箴 竹 118.5 G3-6356 T4-3377 K3-2E30 KP1-63D1	41E3 筏 筏 筏 筏 竹 118.6 JA-254F	41F3 篦 竹 118.6 JA-254F

Ext B and Ext C format (5 Cols)

20000	己 己	20011	丙 丙	20022	此 此	20034	𠂔	20045	虧
— 1.1	3_KX00750 T5-2515	— 1.4	G_HZ	— 1.6	G_KX0078 T5-232F	— 1.7	V0-354A	— 1.10	G_HZ
20001	亏	20012	亏 亏	20023	𢃠	20035	𢃡	20046	𡇁 𡇁
— 1.1	G_HZ	— 1.4	G_HZ	— 1.6	TF-222B	— 1.8	TF-2922	— 1.11	TF-3932 H-9376
20002	乙	20013	引	20024	𢃢	20036	𢃣	20047	稙
— 1.1	TF-2121	— 1.4	G_HZ	— 1.6	G_HZ	— 1.8	TF-2923	— 1.11	TF-3933
20003	且 且	20014	亥 亥	20025	𢃤 𢃤	20037	𢃥	20048	嵐 嵐
— 1.2	G_KX0076 T6-212F	— 1.4	G_HZ	— 7.5	G_HZ	□ 30.6	G_HZ	— 1.11	G_HZ T6-472D
20004	工	20015	互	20026	州	20038	𢃦	20049	凰
— 1.2	T6-212D	— 1.4	G_HZ	— 1.6	G_HZ	— 1.8	G_HZ	几 16.10	G_HZ
20005	𠂔 𠂔	20016	共	20027	𢃧	20039	𠂔	2004A	爽
— 1.2	G_HZ T6-212F	— 1.4	V0-3F5F	— 1.6	V0-354F	□ 30.6	G_HZ	— 1.11	G_HZ
20006	丰	20017	共	20028	𢃪	2003A	𠂔	2004B	秉
— 1.2	K4-0002	— 1.4	V0-3F60	— 1.6	V2-6E21	— 1.8	G_HZ	— 1.11	TF-3B73
20007	且 且	20018	禿 禿	20029	𠂔 𠂔	2003B	𠂔 𠂔	2004C	𠂔
— 1.3	3_KX00770 T6-2142	— 1.5	G_KX007 T6-2340	J 6.5	G_HZ	T6-2563	— 1.8	G_HZ	— 1.12 TF-4035
20008	丘 丘	20019	丽 丽	2002A	其	2003C	夏	2004D	𠂔
— 1.3	3_KX00770 T6-2143	— 1.5	G_KX007 T5-233E	— 1.6	V0-456C	爻 35.7	G_HZ	— 1.12	TF-4075
20009	𠂔 𠂔	2001A	系 系	2002B	其	2003D	𦨫	2004E	𢃩
— 1.3	T5-2133 KP1-3408	— 1.5	G_KX007 T6-233F	— 1.6	V0-456D	— 1.9	G_HZ	— 1.13	H-9548
2000A	赤	2001B	丙	2002C	𠂔 𠂔	2003E	𠂔	2004F	𠂔
— 1.3	G_HZ	— 1.5	G_HZ	— 1.7	3_KX00781 T6-2937	— 1.9	H-9375	— 1.13	G_HZ
2000B	丈 丈	2001C	亾	2002D	𠂔 𠂔	2003F	𠂔	20050	𠂔
— 1.3	G_HZ T3-2144	— 1.5	G_HZ	— 1.7	G_KX007 T6-293A	— 1.9	V2-6E27	— 1.13	G_HZ
丈 丈	2001D	正	2002E	𠂔 𠂔	20040	𦨫	20051	𦨫	
J3-2E22 KP1-340C	— 1.5	G_HZ	— 1.7	G_KX007 T6-2938	— 1.9	V0-3F68	— 1.13	V0-354C	
2000C	𠂔	2001E	所	2002F	𠂔	20041	盟 盟	20052	𧈧
— 1.3	G_HZ	— 1.5	G_HZ	□ 31.5	G_HZ	— 1.10	G_KX007 T5-3072	— 1.13	TF-4742
2000D	卅	2001F	束	20030	𠂔	盟	盟	20053	𧈧
— 1.4	3_KX00771	— 1.5	G_HZ	— 1.7	G_HZ	KP1-341E	— 1.14	TF-4D56	
2000E	𠂔	20020	𢃢 𢃢	20031	𠂔	20042	𦨫	20054	鶴
— 1.4	G_4K	— 1.5	G_HZ	T6-2467	— 1.7	G_HZ	— 1.10	V2-6E26	— 1.14 V2-6F21
2000F	屯	20021	禿 禿	20032	𠂔	20043	秉 秉	20055	𠂔 𠂔
— 1.4	TF-213E	— 1.6	G_KX007 T6-255F	— 1.7	V0-305F	— 1.10	G_HZ T5-3323	— 1.14	G_KX007 T7-2121
20010	虫	禿	禿	20033	𠂔	20044	𦨫	20056	𠂔
— 1.4	TF-213F		H-9C71	— 1.7	V2-6E25	— 1.10	V0-354B		KP1-341F