

**Doc Type:** Working Group Document  
**Title:** Comments on four error glyphs on CJK Unified Ideographs Ext B & E  
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### 1. Possible error V-source glyph for U+2017B

The IDS of the current UCS2003 glyph for U+2017B is 𣵑, but the IDS of the current V-source glyph for U+2017B is 𣵑. (pls see Fig. 1) 𣵑 shouldn't be unifiable with 𣵑.

*Fig. 1 U+2017B on The Unicode Standard, Version 9.0*



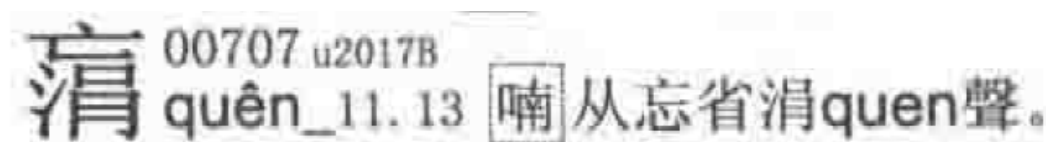
We found this character in the official website of VNPF, Quốc Ngữ is quên. (pls see Fig. 2)

*Fig. 2 U+2017B on VNPF*

Quốc Ngữ	Hán-Nôm	Codepoint	Context	Ref.	English
quên	𣵑	<a href="#">U+2017b</a>	quên lãng	vn	to fall/sink into oblivion

Fig. 3 U + 2017B on Kangxi-Plus Unicode Han Dictionary

张玉书, 陈廷敬, 王宏源 等 (Zhāng Yùshū, Chén Tíngjìng, Wáng Hóngyuán, et al): 《康熙字典 (增订版)》 (*Kangxi-Plus Unicode Han Dictionary*), 北京: 社会科学文献出版社 [Běijīng: Social Sciences Academic Press (CHINA)], 2015, ISBN 978-7-5097-7093-1, p. 22



According to Fig. 3, the semantic component (形符) of U + 2017B is 忘 which means to fall or sink into oblivion (pls see Fig. 4), and the other part is the phono component (声符). Quốc Ngữ of 涓 is vờn (pls see Fig. 5), and 涓 is quen, quên, quyen (pls see Fig. 6), so we think V-source glyph for U + 2017B may be wrong.

Fig. 4 U + 5FD8 on VNPF

Quốc Ngữ	Hán-Nôm	Codepoint	Context	Ref.	English
vong	忘	<a href="#">U+5fd8</a>	vong ân	vhn	to prove ungrateful

Fig. 5 U + 6EB3 on VNPF

Quốc Ngữ	Hán-Nôm	Codepoint	Context	Ref.	English
vờn	涓	<a href="#">U+6eb3</a>	chờn vờn	vhn	to cruise

Fig. 6 U + 6D93 on VNPF

Quốc Ngữ	Hán-Nôm	Codepoint	Context	Ref.	English
quen	涓	<a href="#">U+6d93</a>	quen biết	vhn	be acquainted with
quên	涓	<a href="#">U+6d93</a>	quên đi	btcn	to forget it!
quyên	涓	<a href="#">U+6d93</a>	quyên (dòng nước nhỏ): quyên trích (giọt nước nhỏ)	btcn	small stream

We suggest three ways to solve this problem:

A1) Encode V2-6E46 as a new character, and the kRSUnicode value for the new character is 8.14.

A2) Add a new U-source glyph into U+2017B. The evidence of the new U-source ideograph is

Fig. 3.

*Table 1 Information for a New Proposed U-source Ideograph*

Glyph	IDS	Radical	Radical Form	Strokes	First Stroke	Simplified Form	Variant Form	Variant Code Point	U-source Number
瘡	𠄎亡涓 U+2FF1, U+4EA1, U+6D93	8	𠄎	11	5	N/A	N/A	N/A	UTC-xxxxx OR UCI-xxxxx

B1) Keep the present situation of U+2017B, and add a second kRSUnicode value of 8.14 in the future.

B2) Add two glyphs into SVS like this:

*Table 2 Proposed SVSes for U+2017B*

Base Character	Variation Selector	Glyph	Description
U+2017B	FE00 (VS1)	瘡	UCS2003
U+2017B	FE01 (VS2)	瘡	V2-6E46

C1) Keep the present situation of U+2017B, and add a second kRSUnicode value of 8.14 in the future.

C2) Add two glyphs into IVD like this:

*Table 3 Proposed IVSes for U+2017B*

<b>Base Character</b>	<b>Variation Selector</b>	<b>Glyph</b>	<b>Description</b>
U+2017B	E0100 (VS17)	𠄎	UCS2003
U+2017B	E0101 (VS18)	𠄏	V2-6E46

## 2. Possible error V-source glyph for U+204AF

The IDS of the current UCS2003 glyph for U+204AF is 𪚦肉兒, but the IDS of the current V-source glyph for U+204AF is 𪚦肉充. (pls see Fig. 7) 兒 shouldn't be unifiable with 充.

Fig. 7 U+204AF on The Unicode Standard, Version 9.0

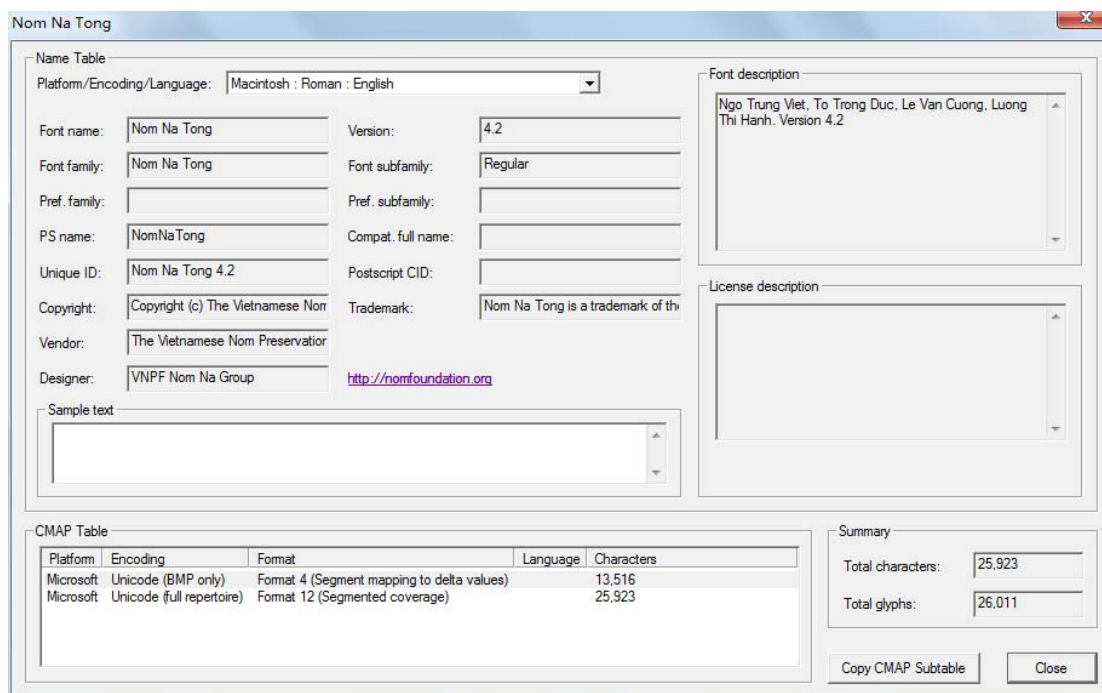


We found this character in the official website of VNPF, Quốc Ngữ is nhóc. (pls see Fig. 8) The glyph on VNPF is as the same as UCS2003, not V0-4422. The supportive font of VNPF is Nom Na Tong Regular V4.2 produced by VNPF themselves now. (pls see Fig. 9, and the software used in the figure is BabelMap produced by Andrew West)

Fig. 8 U+204AF on VNPF

Quốc Ngữ	Hán-Nôm	Codepoint	Context	Ref.	English
nhóc	𪚦	<a href="#">U+204af</a>	nhóc con, thằng nhóc	<a href="#">vhn</a>	kid, brat

Fig. 9 The Information about Nom Na Tong Regular V4.2



We think the phono component of U+204AF is 肉, because Quốc Ngữ of 肉 is nhục which is similar with nhóc (pls see Figs. 8 & 10), and the other part is the semantic component. According to VNPF, U+204AF means kid and brat, and it's similar with 兒 (pls see Fig. 11), not 充 (pls see Fig. 12). So we think V-source glyph for U+204AF may be wrong.

Fig. 10 U+8089 on VNPF

Quốc Ngữ	Hán-Nôm	Codepoint	Context	Ref.	English
nhục	肉	<a href="#">U+8089</a>	cốt nhục	<a href="#">vhn</a>	bone and flesh

Fig. 11 U+5152 on VNPF

Quốc Ngữ	Hán-Nôm	Codepoint	Context	Ref.	English
nhi	兒	<a href="#">U+5152</a>	thiếu nhi, bệnh nhi	<a href="#">vhn</a>	child
ngê	兒	<a href="#">U+5152</a>	ngô nghê	<a href="#">gdhn</a>	foolish
nhê	兒	<a href="#">U+5152</a>	nhỏ nhê	<a href="#">gdhn</a>	son, child, oneself; final part

Fig. 12 U+5145 on VNPF

Quốc Ngữ	Hán-Nôm	Codepoint	Context	Ref.	English
sung	充	<a href="#">U+5145</a>	sung sức	vhn	in good form, fully fit

We suggest four ways to solve this problem:

A) Change the V-source glyph to 𠂔肉兒 like the glyph of Nom Na Tong Regular V4.2. (pls see [IRGN1784 VietnamResponse](#) or Figs.13 & 14)

Fig. 13 IRGN1784 VietnamResponse

U+204AF	V	204AF 儿 10.12	𠂔 充 UCS2003 V0-4422	J: glyph not revised G: and not unifiable, need V glyph to change back. Already mentioned in IRGN1775_A4 (J comments).	V-font is not correct correct font as UCS2003	𠂔 充
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Fig. 14 The Right V-source Glyph for U + 204AF

𠂔

B1) Encode V0-4422 as a new character, and the kRSUnicode value for the new character is 10.10.

B2) Add a new U-source glyph into U + 204AF. We feel sorry not to find out a suitable evidence at this time.

Table 4 Information for a New Proposed U-source Ideograph

Glyph	IDS	Radical	Radical Form	Strokes	First Stroke	Simplified Form	Variant Form	Variant Code Point	U-source Number
𠂔	𠂔肉兒 U+2FF1, U+8089, U+5152	10	儿	12	2	N/A	N/A	N/A	UCI-xxxxx

C1) Keep the present situation of U + 204AF, and add a second kRSUnicode value of 10.10 in the future.

C2) Add two glyphs into SVS like this:

*Table 5 Proposed SVSes for U + 204AF*

<b>Base Character</b>	<b>Variation Selector</b>	<b>Glyph</b>	<b>Description</b>
U + 204AF	FE00 (VS1)	𪗇	UCS2003
U + 204AF	FE01 (VS2)	𪗈	V0-4422

D1) Keep the present situation of U + 204AF, and add a second kRSUnicode value of 10.10 in the future.

D2) Add two glyphs into IVD like this:

*Table 6 Proposed IVSes for U + 204AF*

<b>Base Character</b>	<b>Variation Selector</b>	<b>Glyph</b>	<b>Description</b>
U + 204AF	E0100 (VS17)	𪗇	UCS2003
U + 204AF	E0101 (VS18)	𪗈	V0-4422



### 3. Error UCS2003 glyph for U+24CB2

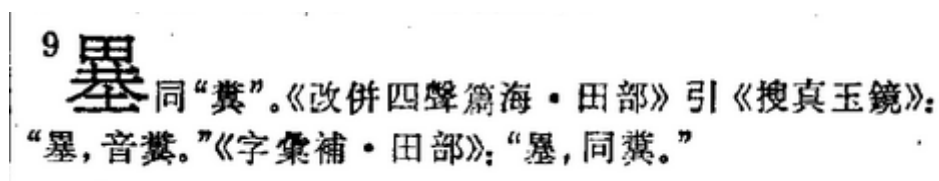
The current UCS2003 glyph for U+24CB2 is error, it's different from G-source & T-source glyph for U+24CB2. (pls see Fig. 15)

Fig. 15 U+24CB2 on The Unicode Standard, Version 9.0



We show the evidence in one of the original sources: GHZ-42549.08 which is in the 《汉语大字典》. (pls see Fig. 16)

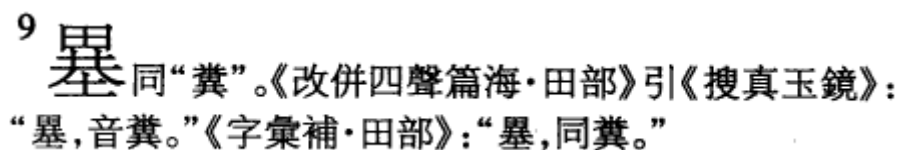
Fig. 16 GHZ-42549.08 on Hànyǔ Dàzìdiǎn V1



The glyph in 《汉语大字典》V2 is the same. (pls see Fig. 17)

Fig. 17 GHZ-42549.08 on Hànyǔ Dàzìdiǎn V2

汉语大字典编辑委员会(Hànyǔ Dàzìdiǎn Biānjí Wěiyuánhui): 《汉语大字典(第二版)》(Hànyǔ Dàzìdiǎn V2), 武汉: 湖北长江出版集团崇文书局 (Wǔhàn: Chongwen Publishing House of Hubei Changjiang Publishing Group) & 成都: 四川出版集团四川辞书出版社 (Chéngdū: Sichuan Reference Press of Sichuan Publishing Group), 2010, ISBN 978-7-5403-1744-7, p. 2729



We have found more evidences about this glyph.

Figs. 18 through 20 GHZ-42549.08 on different versions of KangXi Dictionary

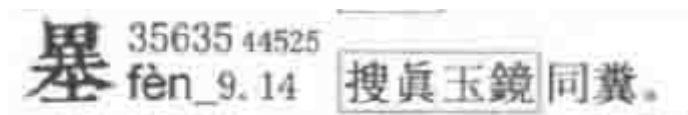
内府本《康熙字典》（午集備考），p. 40



同文書局版《康熙字典》（午集備考），p. 113



张玉书, 陈廷敬, 王宏源 等 (Zhāng Yùshū, Chén Tíngjìng, Wáng Hóngyuán, et al): 《康熙字典（增订版）》 (*Kangxi-Plus Unicode Han Dictionary*), 北京: 社会科学文献出版社 [Běijīng: Social Sciences Academic Press (CHINA)], 2015, ISBN 978-7-5097-7093-1, p. 993



On the other hand, we found the evidence for the character 罘, too. (pls see Fig. 21)

Fig. 21 罘 on *Zhōnghuá Zìhǎi*

冷玉龙, 韦一心 等 (Lěng Yùlóng, Wéi Yìxīn, et al): 《中华字海》 (*Zhōnghuá Zìhǎi*), 北京: 中华书局 (Běijīng: Zhonghua Book Company) & 北京: 中国友谊出版公司 (Běijīng: Friendship Publishing Corporation of China), 1994, ISBN 7-5057-0630-6/H • 1, p. 838

罘同“叁”。字见《篇海》。

We suggest four ways to solve this problem:

A1) Withdraw UCS2003 glyph for U + 24CB2 like U + 2384F, and keep the kRSUnicode value of 102.9.

A2) Encode 𠄎日基 as a new U-source ideograph, and the kRSUnicode value for it is 72.9. The evidence of the new U-source ideograph is Fig. 21.

*Table 7 Information for a New Proposed U-source Ideograph*

Glyph	IDS	Radical	Radical Form	Strokes	First Stroke	Simplified Form	Variant Form	Variant Code Point	U-source Number
𠄎	𠄎日基 U+2FF1, U+65E5, U+212CD	72	日	9	2	N/A	叁	U+21284	UTC-xxxxx OR UCI-xxxxx

B1) Encode GHZ-42549.08 & T6-5F26 as a new character, and change the kRSUnicode value for U + 24CB2 of 72.9, and the kRSUnicode value for the new character is 102.9.

B2) Add a new U-source glyph into U + 24CB2 like Table 7.

C1) Keep the present situation of U + 24CB2, and add a second kRSUnicode value of 72.9 in the future.

C2) Add two glyphs into SVS like this:

*Table 8 Proposed SVSes for U + 24CB2*

Base Character	Variation Selector	Glyph	Description
U + 24CB2	FE00 (VS1)	𠄎	UCS2003
U + 24CB2	FE01 (VS2)	𠄎	GHZ-42549.08
U + 24CB2	FE02 (VS3)	𠄎	T6-5F26

D1) Keep the present situation of U+24CB2, and add a second kRSUnicode value of 72.9 in the future.

D2) Add two glyphs into IVD like this:

*Table 9 Proposed IVSes for U+24CB2*

<b>Base Character</b>	<b>Variation Selector</b>	<b>Glyph</b>	<b>Description</b>
U+24CB2	E0100 (VS17)	𪛓	UCS2003
U+24CB2	E0101 (VS18)	𪛔	GHZ-42549.08
U+24CB2	E0102 (VS19)	𪛕	T6-5F26

#### 4. Error M-source glyph for U+2CC43

Fig. 22 U+2CC43 on The Unicode Standard, Version 9.0



IRGN1606 showed MAC-00119 (aka MAC00119) was based on the book named “*Codificado de Romanizacao do Cantonese*” (aka *Silabário Codificado de Romanização do Cantonense* on the official website of Macao SAR). (pls see Fig. 23) Its Macao Cantonese pronunciation is NGAK.

Fig. 23 MAC-00119 on IRGN1606

MAC00119	額	Based on the book name "Codificado de Romanizacao do Cantonese"	NGAK , Code:9473	額	Reserve	Based on the book name "Codificado de Romanizacao do Cantonese"
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IRGN1739 Part D showed this character was NO. 9473 in the book named “*Codificado de Romanizacao do Cantonese*” (aka *Silabário Codificado de Romanização do Cantonense* on the official website of Macao SAR). (pls see Fig. 24)

Fig. 24 MAC-00119 on IRGN1739 Part D

MAC00119

WAI	TUK			
9471	9472	9473	9474	9475
九夏	合夏	名夏	危夏	弁夏
KAO	HAP	NGAK	NGAI	KUAI
9481	9482	9483	9484	9485
風貝	風包			
KOI	PIO			

We found two handwriting glyphs about NO. 9473 on the book named “Codificado de Romanizacao do Cantonese” (aka *Silabário Codificado de Romanização do Cantonense* on the official website of Macao SAR) when we review the book, one was on p. 3003 like IRGN1739 Part D showed, the other was on p. 2867. (pls see Figs. 25 & 26)

Fig. 25 MAC-00119 on *Silabário Codificado de Romanização do Cantonense* (p. 3003)

9473
名夏
NGAK

Fig. 26 MAC-00119 on *Silabário Codificado de Romanização do Cantonense* (p. 2867)

215 - NGAK	額 7345	語 9216	額 9473
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According to Fig. 26, we could find the left hand side of NO. 9473 was 各 not 名 evidently, and

NO. 9473 should be unifiable with 額 (U+981F).

On the other hand, we found the evidence for the character 𠄎名頁. (pls see Fig. 27)

Fig. 27 𠄎名頁 on *Zhōnghuá Zìhǎi*

冷玉龙, 韦一心 等 (Lěng Yùlóng, Wěi Yìxīn, et al): 《中华字海》 (*Zhōnghuá Zìhǎi*), 北京: 中华书局 (Běijīng: Zhonghua Book Company) & 北京: 中国友谊出版公司 (Běijīng: Friendship Publishing Corporation of China), 1994, ISBN 7-5057-0630-6/H • 1, p. 1583

額 “額(額)”的讹字。字见朝鲜本《龙龕》。

額 é 音俄 | ①同“额”，额头 | > 《汉书·孝成赵皇后传》：“～上有壮发。”②〔～～〕不休息 | > 《书·益稷》：“傲虐是作，罔昼夜～～。”

We suggest two ways to solve this problem:

A1) Keep the present situation of U+2CC43, and add a kSemanticVariant value of U+981F.

A2) Keep the present situation of U+981F, and add a kSemanticVariant value of U+2CC43.

B1) Change MAC-00119 glyph to be 𠄎各頁, and make it unifiable with U+981F.

B2) Make the source for U+2CC43 become a new U-source glyph. The evidence of the new

U-source ideograph is Fig. 27.

Table 10 Information for a New Proposed U-source Ideograph

Glyph	IDS	Radical	Radical Form	Strokes	First Stroke	Simplified Form	Variant Form	Variant Code Point	U-source Number
額	𠄎各頁 U+2FF0, U+5404, U+9801	181	頁	6	3	N/A	額	U+981F	UTC-xxxxx OR UCI-xxxxx



## 5. Proposed additional information on CJK Unified Ideographs to ISO/IEC 10646

### Annex P

At last, we suggest the four error information could be included to ISO/IEC 10646 Annex P before they will be solved.

Table 11 Proposed Additional Information on CJK Unified Ideographs to ISO/IEC 10646

### Annex P

UCS / Glyph	Additional Information
2017B <small>→ 8.11</small> 痛 瀆 UCS2003 V2-6E46	V2-6E46 source glyph for this code point was mistakenly designed.
204AF <small>儿 10.12</small> 覓 覓 UCS2003 V0-4422	V0-4422 source glyph for this code point was mistakenly designed.
24CB2 <small>田 102.9</small> 暴 暴 暴 UCS2003 GHZ-42549.08 T6-5F26	UCS2003 glyph was mistakenly unified to this code point.
2CC43 <small>頁 181.6</small> 頌 MAC-00119	MAC-00119 source glyph was mistakenly designed from the evidence submitted by Macao SAR to IRG.

(End of Document)