Universal Multiple-Octet Coded Character Set International Organization for Standardization Organisation Internationale de Normalisation Международная организация по стандартизации

Doc Type: Working Group Document

Title: Preliminary proposal for encoding the Kpelle script in the SMP of the UCS

Source: UC Berkeley Script Encoding Initiative (Universal Scripts Project)

Authors: Michael Everson and Charles Riley

Status: Individual Contribution

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

Date: 2010-02-23

1. Introduction. A syllabic script for the Kpelle language was devised in the 1930's by Gbili, a chief of Sanoyea, in Bong County, Liberia, during the 1930's. Accounts usually mention that Gbili was inspired by revelation in a dream. In one retelling, Gbili dictated the script in nearly complete form to Lee-Polu-Mala-Yale, from the village of Zongkai. The script was actively used for a few decades after its invention, by other chiefs, including Bono-Boi of Yanekwele, their scribes, and by one of the wives of Gbili, Neni- Tee. Uses included sending messages, keeping tax and store records, recording legal debts, and compiling a recipe book. (Stone 1990:136-137; Dalby 1967:30, f.n. 2). It has not been determined how many of these texts may have survived the Liberian civil wars, but probably very little if any original material remains.

The first scholarly reference to the Kpelle script comes from Johannes Friedrich (1937), who offered little in the way of accompanying detail. A first attempt at analysis came through with Lassort (1951), who included data from two sources, collected separately in the field. David Dalby published an analysis in 1967 based on the Lassort data, and Ruth Stone (1990) has produced a more recent article, using her own field research, the collection of which dates from 1970. The use of the script has been light, but continued at least through the 1980's among the Kpelle.

2. Structure. One of the unique features of the Kpelle syllabary is that it encodes for pairs of syllables, what Dalby terms "mutational pairs", that are related by the phonological similarity of their initial consonants; thus reducing the total number of characters encoded by about half of what it would be otherwise. In this proposal, only one character has been proposed for these mutational pairs for example, 16C02 KPI-GBI is used for both *kpi* and *gbi*.

Sometimes, however, a mutational pair has two glyphs available for use interchangeably. Thus, for the pair of related syllables ka and ga, either \mathfrak{P} KA-GA or \mathfrak{P} GA-KA may be used, and for the pair of related syllables ka and ga, either \mathfrak{P} TI-DI or \mathfrak{P} DI-TI may be used. Lassort's data is presented as two full sets of glyphs across the range of characters, and his data is largely repeated in the Dalby source in a compiled tabular form that attempts to unify the two Lassort sources. Comparing the data presented in Lassort and Stone, there are small sets of characters found in one but not the other. The most notable of these are the Kpelle digits, which Stone notes, "were added later also. The late Peter Giddings, a young boy at the time of the script's invention, recalled how he returned to Sanoyea during a school vacation, to be shown the script. Peter said that he pointed out the absence of characters for numbers to Gbili. He then helped him devise a system, which supplemented the original characters of the script." (Stone 1990:139). Most series of syllables can be traced cleanly through from Lassort to Stone.

Dalby's chart shows a number of glyph variants. It is likely that these should be treated as Vai and Bamum glyph variants have been: that if they are required, either a dedicated font for them should be used, or OpenType tables to invoke alternate forms. The forms used in the chart are the primary ones given in Dalby.

- **3. Collating order.** Collation order is as in the code chart. Lassort's method of collation loosely follows a Latin-based sort, using the initial consonant of transliterated syllables as the primary key to the collation, with the ending vowels of the syllable serving to provide the secondary collation weight. Dalby and Stone both opt for a tabular presentation of the data, ordered nearly identically to each other, following Welmers (1973), with the initial consonants beginning each row in their associated pairs—p/b, β/m , kp/gb, f/v, t/d, l/n, h(s)/j(z), y/ny, k/g, kw/gw, $\gamma(m)$, γ or w, w(γ)—followed by nasal syllables and the syllable lengthening characters ω M, γ N, and γ NG.
- **4. Character names.** The usual UCS conventions are used, with BH representing b, B representing b, EE representing e, E representing e, OO representing o, O representing o, and NG representing g. Nasalized consonants are written with a final -N.
- **5. Linebreaking.** Letters behave as in Vai and Bamum.
- **6. Punctuation and digits.** To date, no script-specific punctuation has been seen. Characters exist for the numbers one through ten; no zero has yet been attested.
- 7. Unicode Character Properties.

```
16C00; KPELLE SYLLABLE PI-BHI; Lo; 0; L;;;; N;;;;

...

16C69; KPELLE SYLLABLE NG; Lo; 0; L;;;; N;;;;

16C71; KPELLE DIGIT ONE; Nd; 0; L;; 1; 1; 1; N;;;;

16C72; KPELLE DIGIT TWO; Nd; 0; L;; 2; 2; 2; N;;;;

16C73; KPELLE DIGIT THREE; Nd; 0; L;; 3; 3; 3; N;;;;

16C74; KPELLE DIGIT FOUR; Nd; 0; L;; 4; 4; 4; N;;;;

16C75; KPELLE DIGIT FIVE; Nd; 0; L;; 5; 5; 5; N;;;;

16C76; KPELLE DIGIT SEVEN; Nd; 0; L;; 6; 6; 6; 6; N;;;

16C77; KPELLE DIGIT EIGHT; Nd; 0; L;; 8; 8; 8; N;;;;

16C79; KPELLE DIGIT NINE; Nd; 0; L;; 9; 9; 9; N;;;;

16C7A; KPELLE DIGIT NINE; Nd; 0; L;;; 10; N;;;;
```

8. Acknowledgements. This project was made possible in part by a grant from the U.S. National Endowment for the Humanities, which funded the Universal Scripts Project (part of the Script Encoding Initiative at UC Berkeley) in respect of the Kpelle encoding. Any views, findings, conclusions or recommendations expressed in this publication do not necessarily reflect those of the National Endowment of the Humanities.

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	16C0	16C1	16C2	16C3	16C4	16C5	16C6	16C7
0	S.	□å	u/i	نون	C	41	p	
	16C00	16C10	16C20	16C30	16C40	16C50	16C60	
1	")	::	#	J	×	Ģ	B	1
	16C01	16C11	16C21	16C31	16C41	16C51	16C61	16C71
2	%	N	X	ゃ	∽	b	k	1
	16C02	16C12	16C22	16C32	16C42	16C52	16C62	16C72
3	y \$	h	巿	H"	4	10	1	7
	16C03	16C13	16C23	16C33	16C43	16C53	16C63	16C73
4	3	13	المح	J'	ٿل	B	F	10
	16C04	16C14	16C24	16C34	16C44	16C54	16C64	16C74
5	\mathcal{H}	H "	رفي		*	8"	¥	ට
	16C05	16C15	16C25	16C35	16C45	16C55	16C65	16C75
6	Ŷ	8	10)#	J	·//·	0	4
	16C06	16C16	16C26	16C36	16C46	16C56	16C66	16C76
7	F	††	16	ck	રા	Ж	ω	12
	16C07	16C17	16C27	16C37	16C47	16C57	16C67	16C77
8	θ'	ď	11	Ju	4,,	W	N	4n
8	16C08	16C18	16C28	16C38	16C48	16C58	16C68	4 ₀
8	16C08	16C18	16C28	16C38	16C48	16C58	16C68	ယ
	16C08 16C09	16C18 16C19	16C28 16C29	16C38 16C39	16C48	16C58 16C59	16C68	16C79
	16C08 16C09	16C18	16C28	16C38	16C48	16C58 #*	16C68	16C79 y
9	16C08 16C09	16C18 16C19	16C28 16C29	16C38 16C39	16C49	16C58 16C59	16C68	16C79
9	16C08 16C09	16C18 49 16C19	16C28 16C29 16C29	16C38 JM 16C39 F8	16C48 16C49	16C58 #*	16C68	16C79 y
9 A	16C08 16C09 16C0A	16C18 16C19 16C1A	16C28 16C29 16C2A	16C38 JM 16C39 TS 16C3A	16C49 16C4A	16C58 16C59 16C5A	16C68	16C79 y
9 A	16C08 16C09 900 16C0A	16C18	16C28 16C29 16C2A 60	16C38 JM 16C39 16C3A +	16C48 1::	16C58 16C59 16C5A	16C68	16C79 y
9 A B	16C08 16C09 16C0A 16C0B	16C18 16C19 16C1A HH 16C1B	16C28 16C29 16C2A 16C2B	16C38 16C39 16C3A 16C3B	16C48 16C49 16C4A 16C4A	16C58 16C59 16C5A CHD: 16C5B	16C68	16C79 y
9 A B	16C08 16C09 25 16C0A 16C0B 16C0B	16C18 16C19 16C1A HH 16C1B	16C28 16C29 16C29 16C2A 16C2B	16C38 16C39 16C3A 16C3B	16C48 16C49 16C4A 16C4A 16C4A	16C58 16C59 16C5A CHO: 16C5B 0	16C68	16C79 y
9 A B C	16C08 16C09 16C0A 16C0B 16C0C	16C18 16C19 16C1A HH 16C1B M 16C1C	16C28 16C29 16C2A 16C2B 16C2C	16C38 16C39 16C3A 16C3B 6''' 16C3C	16C48 16C49 16C4A 16C4A 16C4B 16C4C	16C58 16C59 16C5A CHD: 16C5B 0 16C5C	16C68	16C79 y
9 A B C	16C08 16C09 16C0A 16C0B 16C0C CS	16C18 16C19 16C1A HHP 16C1B M 16C1C	16C28 16C29 16C29 16C2A 16C2B 16C2C	16C38 16C39 16C3A 16C3B 6"" 16C3C	16C48 16C49 16C4A 16C4A 16C4B 16C4C \$\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\til\text{\texi{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\texit{\text{\text{	16C58 16C59 16C5A CHD: 16C5B 0 16C5C	16C68	16C79 y
9 A B C D	16C08 16C09 16C0A 16C0B 16C0C 16C0C	16C18 16C19 16C1A HH 16C1B M 16C1C 9 16C1D	16C28 16C29 16C29 16C2A 16C2B 16C2C 16C2D	16C38 16C39 16C3A 16C3B 6''' 16C3C 16C3D	16C48 16C49 16C40 16C4A 16C4B 16C4C 16C4C	16C58 16C59 16C5A CHD: 16C5B 0 16C5C 16C5D	16C68	16C79 y
9 A B C D	16C08 16C09 16C0A 16C0B 16C0C 16C0C 16C0D	16C18 16C19 16C1A HHP 16C1B M 16C1C 9 16C1D	16C28 16C29 16C29 16C2A 16C2B 16C2C 16C2C	16C38 16C39 16C3A 16C3B 6 16C3C 16C3D	16C48 16C49 16C40 16C4C 16C4C 16C4D	16C58 16C59 16C5A CHD: 16C5B 0 16C5C 16C5D	16C68	16C79 y

Syllables in -i

16C00

KPELLE SYLLABLE PI-BHI

16C01

KPELLE SYLLABLE BI-MI

16C02

KPELLE SYLLABLE KPI-GBI

16C03

KPELLE SYLLABLE FI-VI

16C04

KPELLE SYLLABLE TI-DI

16C05

KPELLE SYLLABLE DI-TI

16C06

KPELLE SYLLABLE LI-NI

16C07

KPELLE SYLLABLE HI-JI

16C08

KPELLE SYLLABLE YI-NYI

16C09

KPELLE SYLLABLE KI-GI

16C0A

KPELLE SYLLABLE KWI-GWI

16C0B

KPELLE SYLLABLE GHI-NGI

16C0C

KPELLE SYLLABLE NGWI

16C0D

KPELLE SYLLABLE MIN

16C0E

KPELLE SYLLABLE MIN

Syllables in -a

16C0F & KPELLE SYLLABLE PA-BHA 16C13 H KPELLE SYLLABLE TA-DA 16C14 + RPELLE SYLLABLE LA-NA 16C15 ✗ KPELLE SYLLABLE HA-JA 16C16 & KPELLE SYLLABLE YA-NYA 16C17 # KPELLE SYLLABLE KA-GA 16C18 \$ KPELLE SYLLABLE GA-KA 16C19 \$ KPELLE SYLLABLE KWA-G KPELLE SYLLABLE KWA-GWA 16C1A 레 KPELLE SYLLABLE GHA-NGA 16C1B ## KPELLE SYLLABLE NGWA 16C1C \overline{M} KPELLE SYLLABLE WANG KPELLE SYLLABLE MAN 16C1E & KPELLE SYLLABLE NAN 16C1F P KPELLE SYLLABLE NYAN

Syllables in -u

Syllables in -ee

Ψ KPELLE SYLLABLE BEE-MEE 16C2F 16C30 F KPELLE SYLLABLE KPEE-GBEE 16C31 & KPELLE SYLLABLE FEE-VEE 16C32 P KPELLE SYLLABLE TEE-DEE 16C33 ℋ" KPELLE SYLLABLE LEE-NEE 16C34 ¥ KPELLE SYLLABLE HEE-JEE 16C36 J# KPELLE SYLLABLE KEE-GEE 16C37 dv KPELLE SYLLABLE KWEE-GWEE 16C38 ച" KPELLE SYLLABLE GHEE-NGEE 16C39 ⊁ KPELLE SYLLABLE WEE 16C3A 62 KPELLE SYLLABLE NGWEE 16C3B ♥ KPELLE SYLLABLE NEEN

Syllables in -e

16C3E 6 KPELLE SYLLABLE PE-BHE 16C3F Υ KPELLE SYLLABLE BE-ME 16C40 % KPELLE SYLLABLE KPE-GBE 16C41 ★ KPELLE SYLLABLE FE-VE 16C43 5 KPELLE SYLLABLE LE-NE 16C44 F KPELLE SYLLABLE HE-JE 16C46 J KPELLE SYLLABLE KE-GE 16C47 KPELLE SYLLABLE KWE-GWE 16C48 4 KPELLE SYLLABLE GHE-NGE 16C49 ₩ KPELLE SYLLABLE NGWE 16C4A 🕹 KPELLE SYLLABLE E 16C4B ⊮ KPELLE SYLLABLE MEN 16C4C H KPELLE SYLLABLE NEN 16C4D SP KPELLE SYLLABLE NYEN 16C4E & KPELLE SYLLABLE NGEN

Syllables in -o

16C4F KPELLE SYLLABLE PO-BHO 16C50 % KPELLE SYLLABLE BO-MO 16C51 % KPELLE SYLLABLE KPO-GBO 16C52 ゟ KPELLE SYLLABLE FO-VO % KPELLE SYLLABLE LO-NO 16C54 16C55 Y KPELLE SYLLABLE HO-JO 16C56 # KPELLE SYLLABLE KO-GO 16C57 め KPELLE SYLLABLE WO 16C58 ⊀7 KPELLE SYLLABLE WONG 16C59 ₽ KPELLE SYLLABLE MON 16C5A [™] KPELLE SYLLABLE NON 16C5B CHI KPELLE SYLLABLE NYON 16C5C • KPELLE SYLLABLE NGON

Syllables in -oo

Syllable lengtheners

16C71 1 KPELLE DIGIT ONE

16C67

KPELLE SYLLABLE M
16C68

KPELLE SYLLABLE Y-NY
16C69

KPELLE SYLLABLE NG

Numbers

Date: 2010-02-23

9. Figures.

Table IV The Kpelle Syllabary										
	i	a	u	е	ε	э	0	-		
\mathbf{p}/\mathbf{b}	4. (H)	A(3)	#	J (H.)	6	Y	Fe(fe)			
6/ m	+"	□ (Jú)		+ (×)	4		Foo (June)			
kp/gb	S (H)	÷÷ (:/;')	\propto	J (whi)	C (CZ	Je (ee)	: 11 (1/e)			
f / v	195(7)	N(z)		[=fi/vi]	×	あ(9)	か(P)			
t/d	ス(子) (also 升)	h (H)	B*(K)	ヤ(Y)	<u></u>	7° or 18 (S)	В			
$\mathbf{l}/\mathbf{\hat{n}}$	ef (H)	+3	نام (غ ^ن)	H"(#)	Do (Du)	m(8)				
$\mathbf{h}(\mathbf{s})/\mathbf{j}(\mathbf{z})$	J(H)	H" or ₹ (₹)	Te	J'(mp)	J., (B)	8"(oF)	H (He)			
y / n̂y	91(9!)	と(の)		4(4)	米(4)			AI (0)		
\mathbf{k}/\mathbf{g}	ch (co)	(also [[])	17 (>>>)	J="(g:)	T(uzhi)	·//·	\$ (#)			
kw/gw	lo (00)			ch (chs)	B(~)					
y (/ ù)	L''(L,c)	Mr(11)		[= yi]	4. (02)					
y or w			He" (fe or He)			ょ	0			
w (/ŋw)	7 (c)	HH (0110)	Man	[= wi]	::B(9:0)	N gew				
-		[= ya]		do or d'						
NASAL SYLLABLES	ĩ	ã	ũ	ẽ	ĩ.	õ		SYLLABIC NASAL		
m	∞(0)	y cs (z)	(مها) ها			8(P)				
n	HL-(IHL)	β (B)	J (29)	[13] YY(\(\(\(\(\(\(\)\)))						
ny		PP (18)		[9] (米)	[P] <p(\bar{\bar{\bar{\bar{\bar{\bar{\bar{< td=""><td>44:(8)</td><td></td><td></td></p(\bar{\bar{\bar{\bar{\bar{\bar{\bar{<>	44:(8)				
ŋ		ι/i (./')						ce (m)		

Figure 1. Table of Kpelle syllables from Dalby 1967.

			,				
	i	a	u	e	ε	э	0
p/b	85,1	4	#	SA	6	K	Pe
6/m	J'	<		X	40	41*	Fro
kp/gb	85	六	2) پ	cju	8	pe-	#4
f/v	p	N	Fo*	4	\$	声	ぶ
t/d	J-	H	H	6	S	6	13
l/ñ	7	13	بغ.	"Li	Qu.	مو	<i>[</i> _7
h(s)/j(z)	I	6"	Ze	sp	E"	011	Н
y/ny	_11	N	1× *	4	4.		F *
k/g	w	π°	770	4"	ut	'//•	L
kw/gw	. F	ej*		48	150		
γ(/j)	٠٠٠	9/10		Pu	4,		
y or w			1-11	Ju		14	0
w(ŋw)				F2	iifo		

N1	r		· ·							
Nasal Syllables	ĩ	ã	ũ	~e	$\tilde{\epsilon}$	õ				
m	00	1	h	=mi	1₽*	P				
n	HZ'	B	W	=ni	H*	pu*				
ŋ		1/	\\rightarrou\right\right\right\right\right\right\right\right\right\right	<i>i</i> *	$\mathcal{L}_{"}^{*}$	011*		.*		
Syllable Lengthening										
m	u*	,								
ŋ	ٹھ									
Numerals										
1 2	3	4	5	6	7	8	9	10		
* *	. *	Ze*	* ك	7*	75*	73*	*	*		

Figure 2. Table of Kpelle syllables from Stone 1990.

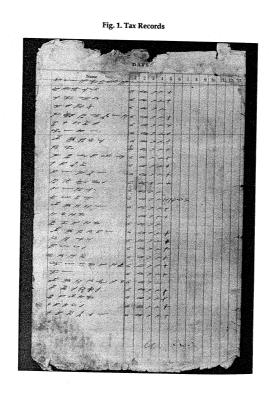


Figure 3. Sample of handwritten Kpelle text (a tax table).

A. Administrative

1. Title

Preliminary proposal for encoding the Kpelle script in the SMP of the UCS

2. Requester's name

Michael Everson and Chuck Riley

3. Requester type (Member body/Liaison/Individual contribution)

Individual contribution.

4. Submission date

2010-02-23

- 5. Requester's reference (if applicable)
- 6. Choose one of the following:

6a. This is a complete proposal

Nο

6b. More information will be provided later

Yes.

B. Technical – General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

Yes.

1b. Proposed name of script

Kpelle.

1c. The proposal is for addition of character(s) to an existing block

No.

1d. Name of the existing block

2. Number of characters in proposal

114.

3. Proposed category (A-Contemporary; B.1-Specialized (small collection); B.2-Specialized (large collection); C-Major extinct; D-Attested extinct; E-Minor extinct; F-Archaic Hieroglyphic or Ideographic; G-Obscure or questionable usage symbols)

Category A.

4a. Is a repertoire including character names provided?

Yes.

4b. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?

Yes.

4c. Are the character shapes attached in a legible form suitable for review?

Yes.

5a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard? **Jason Glavy and Michael Everson.**

5b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:

Michael Everson, FontLab.

6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes.

6b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

7. Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?

Ves.

8. Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at http://www.unicode.org for such information on other scripts. Also see Unicode Character Database http://www.unicode.org/Public/UNIDATA/ UnicodeCharacterDatabase.html and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

See above.

C. Technical – Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.

No.

2a. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?

No.

2b. If YES, with whom?

2c. If YES, available relevant documents

3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?

See above.

4a. The context of use for the proposed characters (type of use; common or rare)

Relatively rare.

4b. Reference

5a. Are the proposed characters in current use by the user community?

Yes

5b. If YES, where?

Scholars and some local use in Guinea and Liberia.

6a. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?

No.

6b. If YES, is a rationale provided?

6c. If YES, reference

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

Yes

8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?

No.

8b. If YES, is a rationale for its inclusion provided?

8c. If YES, reference

9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?

No.

9b. If YES, is a rationale for its inclusion provided?

9c. If YES, reference

10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?

No.

10b. If YES, is a rationale for its inclusion provided?

10c. If YES, reference

11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?

No.

11b. If YES, is a rationale for such use provided?

11c. If YES, reference

11d. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

No.

11e. If YES, reference

12a. Does the proposal contain characters with any special properties such as control function or similar semantics?

No.

12b. If YES, describe in detail (include attachment if necessary)

13a. Does the proposal contain any Ideographic compatibility character(s)?

No.

13b. If YES, is the equivalent corresponding unified ideographic character(s) identified?