ISO/IEC JTC1/SC2/WG2 N3096

L2/06-139 2006-04-24

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

Doc Type: Working Group Document

Title: Proposal for encoding the Rejang script in the BMP of the UCS Source: UC Berkeley Script Encoding Initiative (Universal Scripts Project)

Author: Michael Everson

Status: Individual Contribution

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

Date: 2006-04-24

Rejang is spoken by about 200,000 people living in Indonesia on the island of Sumatra in the southwest highlands, north Bengkulu Province, around Argamakmur, Muaraaman, Curup, and Kepahiang, and also in the Rawas area of South Sumatra Province, near Muara Kulam. There are five major dialects of Rejang: Lebong, Musi, Kebanagung, Pesisir (all in Bengkulu Province), and Rawas (in South Sumatra Province). Most of its users live in fairly remote rural areas, of whom slightly less than half are literate. The traditional Rejang corpus consists chiefly of ritual texts, medical incantations, and poetry.

Origin

The Rejang script is of the Brahmic type, and is related to other scripts of the region, like Batak, Buginese, and Kerinci. The script was in use prior to the introduction of Islam to the Rejang area; the earliest attested document appears to date from the mid-18th century CE.

Structure

Vowel signs are used in a manner similar to that employed by other Brahmi-derived scripts. Consonants have an inherent /a/ vowel sound. Consonant conjuncts are not formed. Syllable structure is C(V)(F) consonant followed by optional vowel sign and/or optional final consonant or virama.

Ordering

The arrangement of the consonants is basically Brahmic and turns up in numerous sources. No strong evidence has been found for any strong preference with regard to the relative order of the vowel signs and of the final consonants; indeed most secondary sources give contradictory evidence in their charts. A generic Brahmic relative ordering for these characters is used in the code chart, with the vowel signs following the consonants, and the final consonant signs following the vowel signs.

Naming

Character names use the usual UCS conventions for Brahmic scripts.

Digits and punctuation

Unique Rejang digits are unknown; Jaspan presents a letter written to him in Rejang by Ali Akbar which uses both Roman numerals in an ordered list and European digits in a date. Ali Akbar uses comma, full stop, and colon, as well as the unique REJANG SECTION MARK which he uses both at the beginning and end of paragraphs.

Linebreaking

Traditional texts tend not to use spacing, but Ali Akbar's letter to Jaspan does; NON-BREAKING SPACE can be used in *scriptio continua* and SPACE otherwise. Hyphenation has not been observed, but could only occur after an orthographic syllable.

Unicode Character Properties

```
A930; REJANG LETTER KA; Lo; 0; L;;;;; N;;;;
A931; REJANG LETTER GA; Lo; 0; L;;;;; N;;;;
A932; REJANG LETTER NGA; Lo; 0; L;;;;; N;;;;
A933; REJANG LETTER TA; Lo; 0; L;;;;; N;;;;
A934; REJANG LETTER DA; Lo; 0; L;;;;; N;;;;
A935; REJANG LETTER NA; Lo; 0; L;;;;; N;;;;
A936; REJANG LETTER PA; Lo; 0; L;;;;; N;;;;
A937; REJANG LETTER BA; Lo; 0; L;;;;; N;;;;
A938; REJANG LETTER MA; Lo; 0; L;;;;; N;;;;
A939; REJANG LETTER CA; Lo; 0; L;;;;; N;;;;
A93A; REJANG LETTER JA; Lo; 0; L;;;;; N;;;;
A93B; REJANG LETTER NYA; Lo; 0; L;;;;; N;;;;
A93C; REJANG LETTER SA; Lo; 0; L;;;;; N;;;;
A93D; REJANG LETTER RA; Lo; 0; L;;;;; N;;;;
A93E; REJANG LETTER LA; Lo; 0; L;;;;; N;;;;
A93F; REJANG LETTER YA; Lo; 0; L;;;;; N;;;;
A940; REJANG LETTER WA; Lo; 0; L;;;;; N;;;;
A941; REJANG LETTER HA; Lo; 0; L;;;;; N;;;;;
A942; REJANG LETTER MBA; Lo; 0; L;;;;; N;;;;;
A943; REJANG LETTER NGGA; Lo; 0; L;;;;; N;;;;
A944; REJANG LETTER NDA; Lo; 0; L;;;;; N;;;;;
A945; REJANG LETTER NYJA; Lo; 0; L;;;;; N;;;;
A946; REJANG LETTER A; Lo; 0; L;;;;; N;;;;
A947; REJANG VOWEL SIGN I; Mn; 0; NSM; ;; ;; N; ; kaluan; ;;
A948; REJANG VOWEL SIGN U; Mn; 0; NSM; ;; ;; N; ; kamitan; ;;
A949; REJANG VOWEL SIGN E; Mn; 0; NSM; ;; ;; N; ; kamica; ;;
A94A; REJANG VOWEL SIGN AI; Mn; 0; NSM;;;;; N;; katiling;;;
A94B; REJANG VOWEL SIGN O; Mn; 0; NSM;;;;; N;;;;;
A94C; REJANG VOWEL SIGN AU; Mn; 0; NSM; ;;;; N;; katulung;;;
A94D; REJANG VOWEL SIGN EU; Mn; 0; NSM;;;;; N;;;;;
A94E; REJANG VOWEL SIGN EA; Mn; 0; NSM; ;; ;; N; ; kajina; ;;
A94F; REJANG CONSONANT SIGN NG; Mn; 0; NSM; ;; ;; N; ; katulang; ;;
A950; REJANG CONSONANT SIGN N; Mn; 0; NSM;;;;; N;; duo deatas;;;
A951; REJANG CONSONANT SIGN R; Mn; 0; NSM; ;;;; N;; kajunjung; ;;
A952; REJANG CONSONANT SIGN H; Mc; 0; L;;;;; N;;;;
A953; REJANG CONSONANT SIGN VIRAMA; Mc; 9; L;;;;; N;;;;
A95F; REJANG SECTION MARK; Po; 0; L;;;;; N;;;;
```

Bibliography

Jaspan, M. A. 1964. Folk literature of South Sumatra: Redjang Ka-Ga-Nga texts. Canberra: Australian National University.

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).

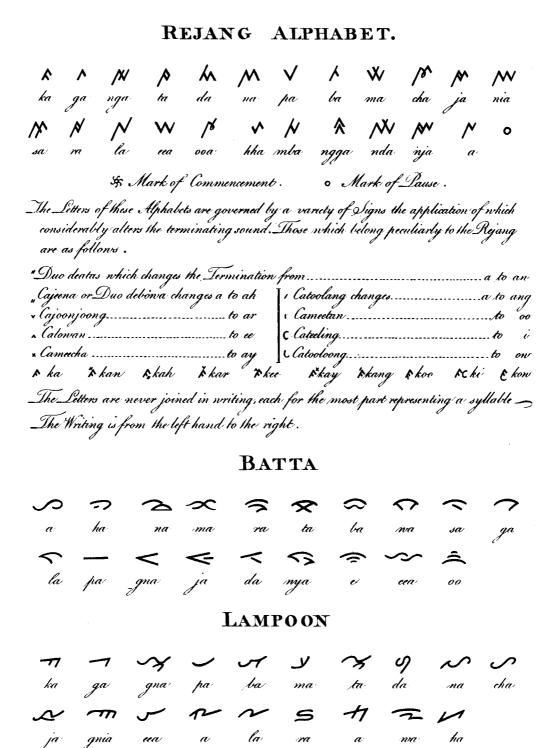


Plate 2 - Marsden's 1783 'Sumatran Alphabets'

Figure 1. Table of Rejang characters from Marsden's 1783 book *Sumatran alphabets*, as presented in Jaspan 1964. Marsden gives traditional names for the vowel signs, which Jaspan notes are no longer current with modern users of Rejang.

Text H - ALI AKBAR'S LETTER TO JASPAN [on paper]

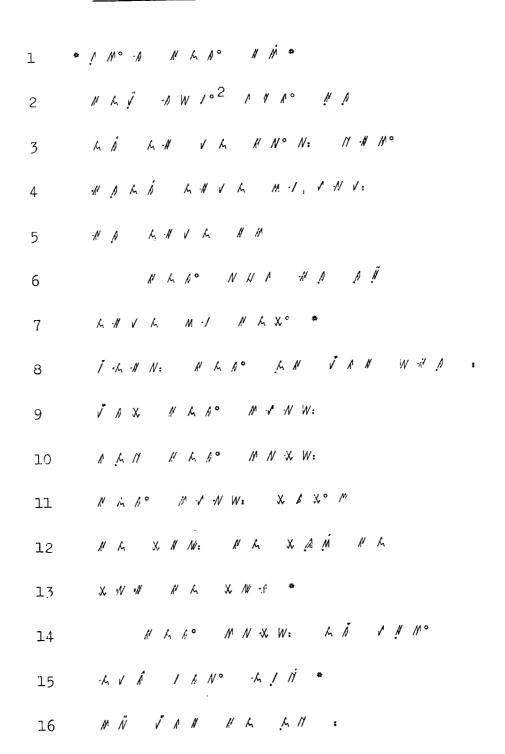


Figure 2. The beginning of Ali Akbar's letter to Jaspan, typeset and reproduced in Jaspan 1964. The REJANG SECTION MARK can be seen in lines 1, 7, 13, and 15.

TABLE XX - Row A9: REJANG

	A93	A94	A95
0	V	//	Ő
1	^	^	Ö
2	/X/	//	0:
3	\wedge	\wedge	ઁ
4	\A	/W	
5	M	%	
6	/	^	
7	/	0	
8	\vee	0.	
9	\wedge	0	
Α	^	Ô	
В	M	Ö	
С	<i>^</i>	Ó	
D	<i> ∧</i>	_	
E	N	੍ਵ	
F	W	Ó	杂

G = 00 P = 00

TABLE XX - Row A9: REJANG

hex	Name	hex	Name
301 331 322 334 353 363 373 383 383 385 385 385 385 385 385 385 38	REJANG LETTER KA REJANG LETTER NAA REJANG LETTER TA REJANG LETTER NA REJANG LETTER NA REJANG LETTER NA REJANG LETTER PA REJANG LETTER BA REJANG LETTER BA REJANG LETTER BA REJANG LETTER WA REJANG LETTER MBA REJANG LETTER MBA REJANG LETTER MBA REJANG LETTER MBA REJANG LETTER NDA REJANG VOWEL SIGN I (kaluan) REJANG VOWEL SIGN I (kaluan) REJANG VOWEL SIGN I (katulun) REJANG VOWEL SIGN I (katulung) REJANG VOWEL SIGN O REJANG VOWEL SIGN O REJANG VOWEL SIGN O REJANG VOWEL SIGN WA (katulung) REJANG VOWEL SIGN BA (katulung) REJANG CONSONANT SIGN N (duo deatas) REJANG CONSONANT SIGN N (katulung) REJANG CONSONANT SIGN N (katulung) REJANG CONSONANT SIGN H REJANG VIRAMA (This position shall not be used)		

A. Administrative

1. Title

Proposal for encoding the Rejang script in the BMP of the UCS.

2. Requester's name

UC Berkeley Script Encoding Initiative (Universal Scripts Project)

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

Individual contribution.

4. Submission date

2006-04-24

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

6a. This is a complete proposal

Yes

6b. More information will be provided later

No.

B. Technical - General

1. Choose one of the following:

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

Ves

Proposed name of script

Rejang.

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

No.

1c. Name of the existing block

2. Number of characters in proposal

37

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. Proposed Level of Implementation (1, 2 or 3)

Level 2

4b. Is a rationale provided for the choice?

Yes.

4c. If YES, reference

Rejang uses Brahmic vowelsigns.

5a. Is a repertoire including character names provided?

Yes.

5b. If YES, are the names in accordance with the ``character naming guidelines'' in Annex L of P&P document?

Yes

5c. Are the character shapes attached in a legible form suitable for review?

Yes.

6a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?

Michael Everson.

6b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:

Michael Everson, Fontographer.

7a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes

7b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

Yes.

8. Special encoding issues: 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)?

. Yes

9. Additional Information: 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.

See above.

C. Technical – Justification

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

Yes, a preliminary proposal was submitted in N3023.

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.)?

Yes.

2b. If YES, with whom?

Richard McGinn, Associate Professor Emeritus of Linguistics and Southeast Asian Studies, Department of Linguistics, Ohio University.

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?

Rejang is used on the island of Sumatra in Indonesia.

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

Used to write the Rejang language.

4b. Reference

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

Yes.

5b. If YES, where?

In Sumatra.

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

Yes. Positions A930-A95F are proposed.

6b. If YES, is a rationale provided? Yes.

6c. If YES, reference

Contemporary use and accordance with the Roadmap.

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?

Nο

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?

Nο

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?

Yes

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

Yes.

11c. If YES, reference

Vowel signs and consonant signs.

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?