Unicode request for modifier capital letters (b)

L2/21-089

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This is a supplement to L2/20-251, which added modifier capitals $\langle c F Q \rangle$ to the Latin Extended-D block. When those were accepted by the UTC, I received the following comments from James Kirby, a member of the Alphabet, Charts & Fonts subcommittee of the IPA Council:

I was delighted to see the proposal accepted, however, I was confused by the inclusion of superscript capital C, F, Q but not S, X, Y, Z. I think it is not hard to find examples of these being used in the literature: for example, superscript capital S is used to differentiate different stopped tones in Tai linguistics (DL vs. DS); X is sometimes used to indicate extra-high tone/register; etc.

James sent the references below, and I am submitting $\langle s x \rangle$ for consideration.

Characters

- ^S A7F0 MODIFIER LETTER CAPITAL S.
- X A7F1 MODIFIER LETTER CAPITAL X.

Chart

During the discussion over L2/20-251, Michael Everson suggested all modifier capital letters of the basic Latin alphabet should be added to Latin Extended-D.

	0	1	2	3	4	5	6	7	8	9	A	В	С	D	Е	F
Latin Extended-D																
U+A7Fx	S	x														

Properties

A7F0;MODIFIER LETTER CAPITAL S;Lm;0;L;<super> 0053;;;;N;;;; A7F1;MODIFIER LETTER CAPITAL X;Lm;0;L;<super> 0058;;;;N;;;;

References

Alexis Michaud & Bonny Sands (2020) *Tonogenesis*. In Aronoff (ed.) *Oxford Research Encyclopedia of Linguistics*. Oxford University Press,

Pittayawat Pittayaporn (2009) The Phonology of Proto-Tai. PhD dissertation, Cornell University.

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Figures

Gloss	Li	Siamese	Lungchow	Po-ai	
'male'	*p ^h -	p ^h u: ^{C1}	p ^h u: ^{C1}	pu: ^{C2}	
'to carry'	*t ^h -	t ^h u: ^{A1}	t ^h u: ^{A1}	tu: ^{A2}	
'to ride'	*k ^h -	k ^h i: ^{B1}	k ^h wi: ^{B1}	kɯj ^{B2}	
'ripe, cooked'	*s-	suk ^{DS1}	łuk 🔼	cuk	

Figure 1. Pittayaporn (2009: 78, table 3-4). The traditional tone categories of the Tai languages are *A *B *C with sonorant finals, and *D with obstruent finals. These split historically into two sets, 1 and 2, based on the voicing of the initial consonant. *D further split into *DS and *DL based on the length of the vowel. As with the H M L tone-letter convention, Tai tones are typically written as full letters in the abstract but as superscripts when modifying a syllable.

²⁶ The etymology is my own. For CT, see Western Nung /srk^{DS1}/, Ningming /sak^{DS2}/, and Qinzhou /cak^{DS2}/, etc. For NT, see Yay /sak^{DS2}/, Wuming /cak^{DS2}/, Yongbei /tsak^{DS2}/, etc. The forms in Ningming, Qinzhou, Wuming, Yongbei, and other NT

Figure 2. Pittayaporn (2009: 82, fn 26).

Table 8. Comparative data bringing out the origin of extra-high tone in Moba. Data and analysis from Rialland (2001, p. 317). XH = extra-high.

gloss	Gulmancema	Moba
he walked on (sthg)	õ kándì (^{LM} o ^H kan ^L di)	ŭ känt (^{LM} u ^{XH} kant)
he walks on (sthg)	ŏ kándí (^{LM} o ^H kan ^H di)	ŭ kánt (^{LM} u ^H kant)

Figure 3. Michaud & Sands (2020: 17, table 8) The H-M-L tone convention is extended to five tone levels with X.

		1	
Please read Prin	ISO/IEC JTC 1 PROPOSAL SUMMARY FORM TO FOR ADDITIONS TO THE REPP Please fill all the sectio ciples and Procedures Document (P & P) from std.dku before filling	D ACCOMPANY SUBMISSIONS ERTOIRE OF ISO/IEC 10646 ¹ ons A, B and C below. ug.dk/JTC1/SC2/WG2/docs/principles.h	tml for guidelines and details
	Please ensure you are using the latest Form from std See also std.dkuug.dk/JTC1/SC2/WG2/do	l.dkuug.dk/JTC1/SC2/WG2/docs/summa	ryform.html.
A. Administrativ	ve		
1. Title:	Modifier o	capital letters (b)	
2. Requester's na		Kirk Miller	
	e (Member body/Liaison/Individual contribution):	individual	
4. Submission dat	te: ference (if applicable):	2021 February 1	
6. Choose one of t			
	complete proposal:		yes
(or) Mor	e information will be provided later:		
B. Technical – G	eneral		
1. Choose one of			
	posal is for a new script (set of characters):		<u>yes</u>
	posed name of script:	Latin Extended-D	
	posal is for addition of character(s) to an existing b ne of the existing block:		<u>no</u>
	aracters in proposal:		2
	gory (select one from below - see section 2.2 of P&F	e document):	
A-Contempor		B.2-Specialized (large colle	ection)
C-Major extin		E-Minor extinct	
	roglyphic or Ideographic	G-Obscure or questionable usage sy	/mbols
	including character names provided?		yes
a. If YES, an P&P docum	re the names in accordance with the "character na	ming guidelines" in Annex L of	yes
	character shapes attached in a legible form suitabl	e for review?	yes
5. Fonts related:			
a. Who wil	l provide the appropriate computerized font to the	Project Editor of 10646 for publishi	ng the standard?
	Kirk Mill		
b. Identify	the party granting a license for use of the font by SIL (Gentium r		ftp-site, etc.):
6. References:	<i>/ · · ·</i>		
	rences (to other character sets, dictionaries, descri		<u>yes</u>
	lished examples of use (such as samples from news f proposed characters attached?	papers, magazines, or other	yes
7. Special encodin			
	roposal address other aspects of character data pro	ocessing (if applicable) such as input	-
presentatio	on, sorting, searching, indexing, transliteration etc	c. (if yes please enclose information)	? <u>no</u>
8. Additional Info			
	nvited to provide any additional information about		
	rect understanding of and correct linguistic proces are: Casing information, Numeric information, Curr		
	hs etc., Combining behaviour, Spacing behaviour, I		
relevance in Mar	k Up contexts, Compatibility equivalence and othe	r Unicode normalization related inf	ormation. See the
	d at <u>http://www.unicode.org</u> for such information		
	<u>code.org/reports/tr44/</u>) and associated Unicode T the Unicode Technical Committee for inclusion in		eueu Ior
oy		····· ································	

¹ Form number: N4502-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03, 2012-01)

C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before?	<u>no</u>
2. 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
user groups of the script or characters, other experts, etc.)?	<u>no</u>
If YES, with whom?	<u>no</u>
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?	
Reference:	
4. The context of use for the proposed characters (type of use; common or rare)ph	ionetic
Reference:	
5. Are the proposed characters in current use by the user community?	yes
If YES, where? Reference:	
6. After giving due considerations to the principles in the P&P document must the proposed characters be entire	
	eferably
If YES, is a rationale provided?	
If YES, reference: preference of Michael Everson	
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	yes
8. Can any of the proposed characters be considered a presentation form of an existing	
character or character sequence?	no
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
9. Can any of the proposed characters be encoded using a composed character sequence of either	
existing characters or other proposed characters?	<u>no</u>
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
10. Can any of the proposed character(s) be considered to be similar (in appearance or function)	
to, or could be confused with, an existing character?	no
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
11. Does the proposal include use of combining characters and/or use of composite sequences?	<u>no</u>
If YES, is a rationale for such use provided?	
If YES, reference:	
Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?	
If YES, reference:	
12. Does the proposal contain characters with any special properties such as	
control function or similar semantics?	no
If YES, describe in detail (include attachment if necessary)	
13. Does the proposal contain any Ideographic compatibility characters?	
If YES, are the equivalent corresponding unified ideographic characters identified?	
If YES, reference:	- — — — —