# Unicode request for IPA compound tone diacritic

L2/23-189

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This request is for a compound tone diacritic "that was covered by the Kiel Convention.

Ligatures of IPA tone diacritics are potentially open-ended, but ligatures of three or more elements generally consist of alternating acute and grave accents. Triple  $\degree$  (grave-acute-grave) and  $\degree$  (acute-grave-acute) are supported by Unicode, as is quadruple  $\degree$  (acute-grave-acute-grave, or double circumflex);  $\degree$  (grave-acute-grave-acute, or double caron) is illustrated by the IPA but is not supported. Longer sequences are unknown.

## Chart

Greyed-out cells have already been assigned.

	0	1	2	3	4	5	6	7	8	9	A	В	C	D	Е	F
Combining Diacritical Marks Extended																
U+1ABx	্	ో	<b>%</b>	៎	៉	្ណ	್ಲ	्	୍	۶	۶	O C)	(°)	္ပ	© >	្វ
U+1ACx	್ಲ	6	d	ု	্	님	<b>#</b>	ঁ	†	<b>;</b>	្ន	<b>″</b>	ំ	ំ	៍	<b>}</b> ○
U+1ADx																

## Character

™ 1ACF COMBINING DOUBLE CARON.

# **Properties**

1ACF; COMBINING DOUBLE CARON; Mn; 230; NSM;;;;; N;;;;

## References

Roach, P.J. (1989) Report on the 1989 Kiel Convention. JIPA 19:2.

# **Figures**

Pitch pattern		Diacritical	tone marks	Tone letters		
high mid	extra high vs. high	x x x	x x	] -	]	
low	vs. extra low		x x	]	]	
rise		3	ĸ	1		
fall		3	X X X X X X X	N		
high rise		3	x	1		
vs. low rise			$\bar{\mathbf{x}}$	1		
high fall			$\hat{\mathbf{x}}$	٦		
vs. low fall			$\hat{\mathbf{x}}$	1		
rise fall		`	x x	7		
fall rise		′	$\widetilde{\mathbf{x}}$	M		
rise fall rise etc.		1	Ŷ~	~		

Figure 1. Roach (1989: 76). Correspondences between the two tone-marking systems of the IPA. The diacritics for contour tones in the middle column are mostly supported by Unicode ( $\check{x}$   $\check{$ 

#### ISO/IEC JTC 1/SC 2/WG 2

### PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS

FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646.1

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from std.dkuug.dk/JTC1/SC2/WG2/docs/principles.html for guidelines and details before filling this form.

Please ensure you are using the latest Form from std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html. See also std.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html for latest Roadmaps.

#### A. Administrative

1. Title: Additional p	honetic click letters						
2. Requester's name:	Kirk Miller						
3. Requester type (Member body/Liaison/Individual contribution):	individual						
4. Submission date:	2023 July 17						
5. Requester's reference (if applicable):							
6. Choose one of the following:							
This is a complete proposal:	yes						
(or) More information will be provided later:							
B. Technical - General							
1. Choose one of the following:							
a. This proposal is for a new script (set of characters):	<u> </u>						
Proposed name of script:							
b. The proposal is for addition of character(s) to an existing b							
Name of the existing block:	Combining Diacritical Marks Extended						
2. Number of characters in proposal:	1						
3. Proposed category (select one from below - see section 2.2 of P&F							
A-Contemporary <u>x</u> 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						
4. Is a repertoire including character names provided?	yes						
a. If YES, are the names in accordance with the "character na	ming guidelines" in Annex L of						
P&P document?	yes						
b. Are the character shapes attached in a legible form suitable	e for review? <u>yes</u>						
5. Fonts related:							
a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?							
<u> Kirk Mill</u>							
b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):							
SIL (Gentium I	Release)						
6. References:	.1. 10						
a. Are references (to other character sets, dictionaries, descri							
b. Are published examples of use (such as samples from news	papers, magazines, or other						
sources) of proposed characters attached?							
7. Special encoding issues:	. (6.5 1, 11.)						
Does the proposal address other aspects of character data pro							
presentation, sorting, searching, indexing, transliteration et	c. (if yes please enclose information)? $\underline{}$ $\underline{}$ $\underline{}$ $\underline{}$ $\underline{}$						
8. 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. 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 www.unicode.org for such information on other scripts. Also see Unicode Character Database							
(www.unicode.org/reports/tr44/) and associated Unicode Technical Reports for information needed for consideration by the							
Unicode Technical Committee for inclusion in the Unicode Standard.							

<sup>&</sup>lt;sup>1</sup> 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?	no
If YES explain	
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.)?	yes
If YES, with whom?  Author is a member of the user community.	
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)	transcription
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	entirely
in the BMP?	no
If YES, is a rationale provided?	
If YES, reference:	
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	
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?	no
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?	no
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?	no
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?	<u>no</u>
If YES, are the equivalent corresponding unified ideographic characters identified?	
If YES, reference:	