

- Tones and diacritics are ignored at level 1, at level 2 the order is:

๑ ๒ ๓ ๔ ๕

In the following section, formal ordering rules that attempts to follow the informal description in that annex are given. Note that, even though Thai and Lao are Brahmic based scripts (Indic scripts), the Thai virama (**THAI CHARACTER PHINTHU**) appears to have lost its “conjoining” quality, and is not even handled as a silent vowel, but a mark ignored at level 1 of the collation weighting. This appears to be so because the virama is most often not written out explicitly, even though the inherent vowel is made silent in pronunciation. The resulting ambiguities (in pronunciation and semantics) have to be resolved by context. However it does not affect collation. Dependent vowels (and would-be dependent vowels) are still, in this proposal, ordered like dependent vowels for Indic scripts, at the very end of the weighting scale for level 1, along with Hangul vowels.

The rules below also contain a number of contractions. These are not explicitly declared below, even though that need be made for a complete 14651 style set of ordering rules; the contractions are easily inferred by the names of the contractions. Using these contractions as below, special prehandling for Thai and Lao in prehandling (which is now specified in UTS 10) is no longer needed (if it is decided to accept this part of this proposal). This method works also with ISO/IEC 14651, which does not require that there is any prehandling at all.

Suggestion for the CTT for Thai and Lao scripts

%%% Thai/Lao punctuation:

<U0E46>	IGNORE; IGNORE; IGNORE;	<U0E46>	% THAI CHARACTER MAIYAMOK	Lm	repetition (not modifier letters, more)
<U0EC6>	IGNORE; IGNORE; IGNORE;	<U0EC6>	% LAO KO LA	Lm	repetition (like apostrophe and hyphen)
<U0E4F>	IGNORE; IGNORE; IGNORE;	<U0E4F>	% THAI CHARACTER FONGMAN	Po	bullet
<U0E2F>	IGNORE; IGNORE; IGNORE;	<U0E2F>	% THAI CHARACTER PAIYANNOI	Lo	danda (not a letter!)
<U0EAF>	IGNORE; IGNORE; IGNORE;	<U0EAF>	% LAO ELLIPSIS	Lo	danda (not a letter!)
<U0E5A>	IGNORE; IGNORE; IGNORE;	<U0E5A>	% THAI CHARACTER ANGKHANKHU	Po	double danda
<U0E5A_U0E30>	IGNORE; IGNORE; IGNORE;	<U0E5A_U0E30>	% THAI CHARACTER ANGKHANKHU, THAI CHARACTER SARA A		end mark
<U0E5B>	IGNORE; IGNORE; IGNORE;	<U0E5B>	% THAI CHARACTER KHOMUT	Po	end mark

%%% Thai/Lao tone marks and other diacritics. Placed after a consonant (*before* any dependent vowel?):

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<U0E4E> IGNORE;<D0E4E>;<MIN>;<U0E4E> % THAI CHARACTER YAMAKKAN      Mn   above
<U0E3A> IGNORE;<D0E3A>;<MIN>;<U0E3A> % THAI CHARACTER PHINTHU      virama, below, silent vowel
<U0E4C> IGNORE;<D0E4C>;<MIN>;<U0E4C> % THAI CHARACTER THANTHAKHAT   Mn   above cancellation mark
<U0ECC> IGNORE;<D0E4C>;<MIN>;<U0ECC> % LAO CANCELLATION MARK       Mn   above cancellation mark
<U0E47> IGNORE;<D0E47>;<MIN>;<U0E47> % THAI CHARACTER MAITAIKHU    Mn   above (vowel?)

<U0E48> IGNORE;<D0E48>;<MIN>;<U0E48> % THAI CHARACTER MAI EK        Mn   above
<U0EC8> IGNORE;<D0E48>;<MIN>;<U0EC8> % LAO TONE MAI EK              Mn   above
<U0E49> IGNORE;<D0E49>;<MIN>;<U0E49> % THAI CHARACTER MAI THO      Mn   above
<U0EC9> IGNORE;<D0E49>;<MIN>;<U0EC9> % LAO TONE MAI THO            Mn   above
<U0E4A> IGNORE;<D0E4A>;<MIN>;<U0E4A> % THAI CHARACTER MAI TRI      Mn   above
<U0ECA> IGNORE;<D0E4A>;<MIN>;<U0ECA> % LAO TONE MAI TI              Mn   above
<U0E4B> IGNORE;<D0E4B>;<MIN>;<U0E4B> % THAI CHARACTER MAI CHATTAWA Mn   above
<U0ECB> IGNORE;<D0E4B>;<MIN>;<U0ECB> % LAO TONE MAI CATAWA        Mn   above

<U0E4D> IGNORE;<D0E4D>;<MIN>;<U0E4D> % THAI CHARACTER NIKHAHIT     Mn   above * final nasal
<U0ECD> IGNORE;<D0E4D>;<MIN>;<U0ECD> % LAO NIGGAHITA               Mn   above * final nasal
<U0E45> IGNORE;<D0E45>;<MIN>;<U0E45> % THAI CHARACTER LAKKHANGYAO  Lo   * length mark used with 0E24 or 0E26
      (not a vowel!)
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%%% Thai consonants:

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<U0E01> <S0E01>;<BASE>;<MIN>;<U0E01> % THAI CHARACTER KO KAI
<U0E40_U0E01> "<S0E01><S0E40>";"<BASE><BASE>";"<MIN><MIN>";<U0E40_U0E01> % E, KO KAI
<U0E41_U0E01> "<S0E01><S0E41>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E01> % AE, KO KAI
<U0E42_U0E01> "<S0E01><S0E42>";"<BASE><BASE>";"<MIN><MIN>";<U0E42_U0E01> % O, KO KAI
<U0E43_U0E01> "<S0E01><S0E43>";"<BASE><BASE>";"<MIN><MIN>";<U0E43_U0E01> % AI MAIMUAN, KO KAI
<U0E44_U0E01> "<S0E01><S0E44>";"<BASE><BASE>";"<MIN><MIN>";<U0E44_U0E01> % AI MAIMALAI, KO KAI
<U0E02> <S0E02>;<BASE>;<MIN>;<U0E02> % THAI CHARACTER KHO KHAI
<U0E40_U0E02> "<S0E02><S0E40>";"<BASE><BASE>";"<MIN><MIN>";<U0E40_U0E02> % E, KHO KHAI
<U0E41_U0E02> "<S0E02><S0E41>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E02> % AE, KHO KHAI
<U0E42_U0E02> "<S0E02><S0E42>";"<BASE><BASE>";"<MIN><MIN>";<U0E42_U0E02> % O, KHO KHAI
<U0E43_U0E02> "<S0E02><S0E43>";"<BASE><BASE>";"<MIN><MIN>";<U0E43_U0E02> % AI MAIMUAN, KHO KHAI
<U0E44_U0E02> "<S0E02><S0E44>";"<BASE><BASE>";"<MIN><MIN>";<U0E44_U0E02> % AI MAIMALAI, KHO KHAI
<U0E03> <S0E03>;<BASE>;<MIN>;<U0E03> % THAI CHARACTER KHO KHUAT
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<U0E43_U0E17> "<S0E17><S0E43>";"<BASE><BASE>";"<MIN><MIN>";<U0E43_U0E17> % AI MAIMUAN, THO THAHAN
<U0E44_U0E17> "<S0E17><S0E44>";"<BASE><BASE>";"<MIN><MIN>";<U0E44_U0E17> % AI MAIMALAI, THO THAHAN
<U0E18> <S0E18>;<BASE>;<MIN>;<U0E18> % THAI CHARACTER THO THONG
<U0E40_U0E18> "<S0E18><S0E40>";"<BASE><BASE>";"<MIN><MIN>";<U0E40_U0E18> % E, THO THONG
<U0E41_U0E18> "<S0E18><S0E41>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E18> % AE, THO THONG
<U0E42_U0E18> "<S0E18><S0E42>";"<BASE><BASE>";"<MIN><MIN>";<U0E42_U0E18> % O, THO THONG
<U0E43_U0E18> "<S0E18><S0E43>";"<BASE><BASE>";"<MIN><MIN>";<U0E43_U0E18> % AI MAIMUAN, THO THONG
<U0E44_U0E18> "<S0E18><S0E44>";"<BASE><BASE>";"<MIN><MIN>";<U0E44_U0E18> % AI MAIMALAI, THO THONG
<U0E19> <S0E19>;<BASE>;<MIN>;<U0E19> % THAI CHARACTER NO NU
<U0E40_U0E19> "<S0E19><S0E40>";"<BASE><BASE>";"<MIN><MIN>";<U0E40_U0E19> % E, NO NU
<U0E41_U0E19> "<S0E19><S0E41>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E19> % AE, NO NU
<U0E42_U0E19> "<S0E19><S0E42>";"<BASE><BASE>";"<MIN><MIN>";<U0E42_U0E19> % O, NO NU
<U0E43_U0E19> "<S0E19><S0E43>";"<BASE><BASE>";"<MIN><MIN>";<U0E43_U0E19> % AI MAIMUAN, NO NU
<U0E44_U0E19> "<S0E19><S0E44>";"<BASE><BASE>";"<MIN><MIN>";<U0E44_U0E19> % AI MAIMALAI, NO NU
<U0E1A> <S0E1A>;<BASE>;<MIN>;<U0E1A> % THAI CHARACTER BO BAIMAI
<U0E40_U0E1A> "<S0E1A><S0E40>";"<BASE><BASE>";"<MIN><MIN>";<U0E40_U0E1A> % E, BO BAIMAI
<U0E41_U0E1A> "<S0E1A><S0E41>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E1A> % AE, BO BAIMAI
<U0E42_U0E1A> "<S0E1A><S0E42>";"<BASE><BASE>";"<MIN><MIN>";<U0E42_U0E1A> % O, BO BAIMAI
<U0E43_U0E1A> "<S0E1A><S0E43>";"<BASE><BASE>";"<MIN><MIN>";<U0E43_U0E1A> % AI MAIMUAN, BO BAIMAI
<U0E44_U0E1A> "<S0E1A><S0E44>";"<BASE><BASE>";"<MIN><MIN>";<U0E44_U0E1A> % AI MAIMALAI, BO BAIMAI
<U0E1B> <S0E1B>;<BASE>;<MIN>;<U0E1B> % THAI CHARACTER PO PLA
<U0E40_U0E1B> "<S0E1B><S0E40>";"<BASE><BASE>";"<MIN><MIN>";<U0E40_U0E1B> % E, PO PLA
<U0E41_U0E1B> "<S0E1B><S0E41>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E1B> % AE, PO PLA
<U0E42_U0E1B> "<S0E1B><S0E42>";"<BASE><BASE>";"<MIN><MIN>";<U0E42_U0E1B> % O, PO PLA
<U0E43_U0E1B> "<S0E1B><S0E43>";"<BASE><BASE>";"<MIN><MIN>";<U0E43_U0E1B> % AI MAIMUAN, PO PLA
<U0E44_U0E1B> "<S0E1B><S0E44>";"<BASE><BASE>";"<MIN><MIN>";<U0E44_U0E1B> % AI MAIMALAI, PO PLA
<U0E1C> <S0E1C>;<BASE>;<MIN>;<U0E1C> % THAI CHARACTER PHO PHUNG
<U0E40_U0E1C> "<S0E1C><S0E40>";"<BASE><BASE>";"<MIN><MIN>";<U0E40_U0E1C> % E, PHO PHUNG
<U0E41_U0E1C> "<S0E1C><S0E41>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E1C> % AE, PHO PHUNG
<U0E42_U0E1C> "<S0E1C><S0E42>";"<BASE><BASE>";"<MIN><MIN>";<U0E42_U0E1C> % O, PHO PHUNG
<U0E43_U0E1C> "<S0E1C><S0E43>";"<BASE><BASE>";"<MIN><MIN>";<U0E43_U0E1C> % AI MAIMUAN, PHO PHUNG
<U0E44_U0E1C> "<S0E1C><S0E44>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E1C> % AI MAIMALAI, PHO PHUNG
<U0E1D> <S0E1D>;<BASE>;<MIN>;<U0E1D> % THAI CHARACTER FO FA
<U0E40_U0E1D> "<S0E1D><S0E40>";"<BASE><BASE>";"<MIN><MIN>";<U0E40_U0E1D> % E, FO FA
<U0E41_U0E1D> "<S0E1D><S0E41>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E1D> % AE, FO FA
<U0E42_U0E1D> "<S0E1D><S0E42>";"<BASE><BASE>";"<MIN><MIN>";<U0E42_U0E1D> % O, FO FA
<U0E43_U0E1D> "<S0E1D><S0E43>";"<BASE><BASE>";"<MIN><MIN>";<U0E43_U0E1D> % AI MAIMUAN, FO FA
<U0E44_U0E1D> "<S0E1D><S0E44>";"<BASE><BASE>";"<MIN><MIN>";<U0E44_U0E1D> % AI MAIMALAI, FO FA
<U0E1E> <S0E1E>;<BASE>;<MIN>;<U0E1E> % THAI CHARACTER PHO PHAN
<U0E40_U0E1E> "<S0E1E><S0E40>";"<BASE><BASE>";"<MIN><MIN>";<U0E40_U0E1E> % E, PHO PHAN
<U0E41_U0E1E> "<S0E1E><S0E41>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E1E> % AE, PHO PHAN

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<U0E42_U0E1E> "<S0E1E><S0E42>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E42_U0E1E> % O, PHO PHAN
 <U0E43_U0E1E> "<S0E1E><S0E43>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E43_U0E1E> % AI MAIMUAN, PHO PHAN
 <U0E44_U0E1E> "<S0E1E><S0E44>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E44_U0E1E> % AI MAIMALAI, PHO PHAN
 <U0E1F> <S0E1F>;<BASE>;<MIN>;<U0E1F> % THAI CHARACTER FO FAN
 <U0E40_U0E1F> "<S0E1F><S0E40>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E40_U0E1F> % E, FO FAN
 <U0E41_U0E1F> "<S0E1F><S0E41>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E41_U0E1F> % AE, FO FAN
 <U0E42_U0E1F> "<S0E1F><S0E42>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E42_U0E1F> % O, FO FAN
 <U0E43_U0E1F> "<S0E1F><S0E43>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E43_U0E1F> % AI MAIMUAN, FO FAN
 <U0E44_U0E1F> "<S0E1F><S0E44>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E44_U0E1F> % AI MAIMALAI, FO FAN
 <U0E20> <S0E20>;<BASE>;<MIN>;<U0E20> % THAI CHARACTER PHO SAMPHAO
 <U0E40_U0E20> "<S0E20><S0E40>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E40_U0E20> % E, PHO SAMPHAO
 <U0E41_U0E20> "<S0E20><S0E41>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E41_U0E20> % AE, PHO SAMPHAO
 <U0E42_U0E20> "<S0E20><S0E42>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E42_U0E20> % O, PHO SAMPHAO
 <U0E43_U0E20> "<S0E20><S0E43>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E43_U0E20> % AI MAIMUAN, PHO SAMPHAO
 <U0E44_U0E20> "<S0E20><S0E44>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E44_U0E20> % AI MAIMALAI, PHO SAMPHAO
 <U0E21> <S0E21>;<BASE>;<MIN>;<U0E21> % THAI CHARACTER MO MA
 <U0E40_U0E21> "<S0E21><S0E40>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E40_U0E21> % E, MO MA
 <U0E41_U0E21> "<S0E21><S0E41>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E41_U0E21> % AE, MO MA
 <U0E42_U0E21> "<S0E21><S0E42>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E42_U0E21> % O, MO MA
 <U0E43_U0E21> "<S0E21><S0E43>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E43_U0E21> % AI MAIMUAN, MO MA
 <U0E44_U0E21> "<S0E21><S0E44>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E44_U0E21> % AI MAIMALAI, MO MA
 <U0E22> <S0E22>;<BASE>;<MIN>;<U0E22> % THAI CHARACTER YO YAK
 <U0E40_U0E22> "<S0E22><S0E40>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E40_U0E22> % E, YO YAK
 <U0E41_U0E22> "<S0E22><S0E41>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E41_U0E22> % AE, YO YAK
 <U0E42_U0E22> "<S0E22><S0E42>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E42_U0E22> % O, YO YAK
 <U0E43_U0E22> "<S0E22><S0E43>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E43_U0E22> % AI MAIMUAN, YO YAK
 <U0E44_U0E22> "<S0E22><S0E44>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E44_U0E22> % AI MAIMALAI, YO YAK
 <U0E23> <S0E23>;<BASE>;<MIN>;<U0E23> % THAI CHARACTER RO RUA
 <U0E40_U0E23> "<S0E23><S0E40>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E40_U0E23> % E, RO RUA
 <U0E41_U0E23> "<S0E23><S0E41>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E41_U0E23> % AE, RO RUA
 <U0E42_U0E23> "<S0E23><S0E42>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E42_U0E23> % O, RO RUA
 <U0E43_U0E23> "<S0E23><S0E43>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E43_U0E23> % AI MAIMUAN, RO RUA
 <U0E44_U0E23> "<S0E23><S0E44>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E44_U0E23> % AI MAIMALAI, RO RUA
 <U0E24> <S0E24>;<BASE>;<MIN>;<U0E24> % THAI CHARACTER RU
 <U0E40_U0E24> "<S0E24><S0E40>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E40_U0E24> % E, RU
 <U0E41_U0E24> "<S0E24><S0E41>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E41_U0E24> % AE, RU
 <U0E42_U0E24> "<S0E24><S0E42>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E42_U0E24> % O, RU
 <U0E43_U0E24> "<S0E24><S0E43>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E43_U0E24> % AI MAIMUAN, RU
 <U0E44_U0E24> "<S0E24><S0E44>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E44_U0E24> % AI MAIMALAI, RU
 <U0E25> <S0E25>;<BASE>;<MIN>;<U0E25> % THAI CHARACTER LO LING
 <U0E40_U0E25> "<S0E25><S0E40>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0E40_U0E25> % E, LO LING


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<U0E40_U0E2C> "<S0E2C><S0E40>";"<BASE><BASE>";"<MIN><MIN>";<U0E40_U0E2C> % E, LO CHULA
<U0E41_U0E2C> "<S0E2C><S0E41>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E2C> % AE, LO CHULA
<U0E42_U0E2C> "<S0E2C><S0E42>";"<BASE><BASE>";"<MIN><MIN>";<U0E42_U0E2C> % O, LO CHULA
<U0E43_U0E2C> "<S0E2C><S0E43>";"<BASE><BASE>";"<MIN><MIN>";<U0E43_U0E2C> % AI MAIMUAN, LO CHULA
<U0E44_U0E2C> "<S0E2C><S0E44>";"<BASE><BASE>";"<MIN><MIN>";<U0E44_U0E2C> % AI MAIMALAI, LO CHULA
<U0E2D> <S0E2D>;<BASE>;<MIN>;<U0E2D> % THAI CHARACTER O ANG
<U0E40_U0E2D> "<S0E2D><S0E40>";"<BASE><BASE>";"<MIN><MIN>";<U0E40_U0E2D> % E, O ANG
<U0E41_U0E2D> "<S0E2D><S0E41>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E2D> % AE, O ANG
<U0E42_U0E2D> "<S0E2D><S0E42>";"<BASE><BASE>";"<MIN><MIN>";<U0E42_U0E2D> % O, O ANG
<U0E43_U0E2D> "<S0E2D><S0E43>";"<BASE><BASE>";"<MIN><MIN>";<U0E43_U0E2D> % AI MAIMUAN, O ANG
<U0E44_U0E2D> "<S0E2D><S0E44>";"<BASE><BASE>";"<MIN><MIN>";<U0E44_U0E2D> % AI MAIMALAI, O ANG
<U0E2E> <S0E2E>;<BASE>;<MIN>;<U0E2E> % THAI CHARACTER HO NOKHUK
<U0E40_U0E2E> "<S0E2E><S0E40>";"<BASE><BASE>";"<MIN><MIN>";<U0E40_U0E2E> % E, HO NOKHUK
<U0E41_U0E2E> "<S0E2E><S0E41>";"<BASE><BASE>";"<MIN><MIN>";<U0E41_U0E2E> % AE, HO NOKHUK
<U0E42_U0E2E> "<S0E2E><S0E42>";"<BASE><BASE>";"<MIN><MIN>";<U0E42_U0E2E> % O, HO NOKHUK
<U0E43_U0E2E> "<S0E2E><S0E43>";"<BASE><BASE>";"<MIN><MIN>";<U0E43_U0E2E> % AI MAIMUAN, HO NOKHUK
<U0E44_U0E2E> "<S0E2E><S0E44>";"<BASE><BASE>";"<MIN><MIN>";<U0E44_U0E2E> % AI MAIMALAI, HO NOKHUK

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%%% Lao consonants:

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<U0E81> <S0E81>;<BASE>;<MIN>;<U0E81> % LAO LETTER KO
<U0EC0_U0E81> "<S0E81><S0EC0>";"<BASE><BASE>";"<MIN><MIN>";<U0EC0_U0E81> % E, KO
<U0EC1_U0E81> "<S0E81><S0EC1>";"<BASE><BASE>";"<MIN><MIN>";<U0EC1_U0E81> % EI, KO
<U0EC2_U0E81> "<S0E81><S0EC2>";"<BASE><BASE>";"<MIN><MIN>";<U0EC2_U0E81> % O, KO
<U0EC3_U0E81> "<S0E81><S0EC3>";"<BASE><BASE>";"<MIN><MIN>";<U0EC3_U0E81> % AY, KO
<U0EC4_U0E81> "<S0E81><S0EC4>";"<BASE><BASE>";"<MIN><MIN>";<U0EC4_U0E81> % AI, KO
<U0E82> <S0E82>;<BASE>;<MIN>;<U0E82> % LAO LETTER KHO SUNG
<U0EC0_U0E82> "<S0E82><S0EC0>";"<BASE><BASE>";"<MIN><MIN>";<U0EC0_U0E82> % E, KHO SUNG
<U0EC1_U0E82> "<S0E82><S0EC1>";"<BASE><BASE>";"<MIN><MIN>";<U0EC1_U0E82> % EI, KHO SUNG
<U0EC2_U0E82> "<S0E82><S0EC2>";"<BASE><BASE>";"<MIN><MIN>";<U0EC2_U0E82> % O, KHO SUNG
<U0EC3_U0E82> "<S0E82><S0EC3>";"<BASE><BASE>";"<MIN><MIN>";<U0EC3_U0E82> % AY, KHO SUNG
<U0EC4_U0E82> "<S0E82><S0EC4>";"<BASE><BASE>";"<MIN><MIN>";<U0EC4_U0E82> % AI, KHO SUNG
<U0E84> <S0E84>;<BASE>;<MIN>;<U0E84> % LAO LETTER KHO TAM
<U0EC0_U0E84> "<S0E84><S0EC0>";"<BASE><BASE>";"<MIN><MIN>";<U0EC0_U0E84> % E, KHO TAM
<U0EC1_U0E84> "<S0E84><S0EC1>";"<BASE><BASE>";"<MIN><MIN>";<U0EC1_U0E84> % EI, KHO TAM
<U0EC2_U0E84> "<S0E84><S0EC2>";"<BASE><BASE>";"<MIN><MIN>";<U0EC2_U0E84> % O, KHO TAM
<U0EC3_U0E84> "<S0E84><S0EC3>";"<BASE><BASE>";"<MIN><MIN>";<U0EC3_U0E84> % AY, KHO TAM

```


<U0EC1_U0EAA> "<S0EAA><S0EC1>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC1_U0EAA> % EI, SO SUNG
 <U0EC2_U0EAA> "<S0EAA><S0EC2>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC2_U0EAA> % O, SO SUNG
 <U0EC3_U0EAA> "<S0EAA><S0EC3>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC3_U0EAA> % AY, SO SUNG
 <U0EC4_U0EAA> "<S0EAA><S0EC4>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC4_U0EAA> % AI, SO SUNG
 <U0EAB> <S0EAB>;<BASE>;<MIN>;<U0EAB> % LAO LETTER HO SUNG
 <U0EC0_U0EAB> "<S0EAB><S0EC0>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC0_U0EAB> % E, HO SUNG
 <U0EC1_U0EAB> "<S0EAB><S0EC1>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC1_U0EAB> % EI, HO SUNG
 <U0EC2_U0EAB> "<S0EAB><S0EC2>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC2_U0EAB> % O, HO SUNG
 <U0EC3_U0EAB> "<S0EAB><S0EC3>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC3_U0EAB> % AY, HO SUNG
 <U0EC4_U0EAB> "<S0EAB><S0EC4>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC4_U0EAB> % AI, HO SUNG

<U0EDC> "<S0EAB><S0E99>"; "<BASE><BASE>"; "<COMPAT><COMPAT>"; <U0EDC> % LAO HO NO
 <U0EC0_U0EDC> "<S0EAB><S0EC0><S0E99>"; "<BASE><BASE><BASE>"; "<COMPAT><COMPAT><COMPAT>"; <U0EC0_U0EDC> % E, HO NO
 <U0EC1_U0EDC> "<S0EAB><S0EC1><S0E99>"; "<BASE><BASE><BASE>"; "<COMPAT><COMPAT><COMPAT>"; <U0EC1_U0EDC> % EI, HO NO
 <U0EC2_U0EDC> "<S0EAB><S0EC2><S0E99>"; "<BASE><BASE><BASE>"; "<COMPAT><COMPAT><COMPAT>"; <U0EC2_U0EDC> % O, HO NO
 <U0EC3_U0EDC> "<S0EAB><S0EC3><S0E99>"; "<BASE><BASE><BASE>"; "<COMPAT><COMPAT><COMPAT>"; <U0EC3_U0EDC> % AY, HO NO
 <U0EC4_U0EDC> "<S0EAB><S0EC4><S0E99>"; "<BASE><BASE><BASE>"; "<COMPAT><COMPAT><COMPAT>"; <U0EC4_U0EDC> % AI, HO NO
 <U0EDD> "<S0EAB><S0EA1>"; "<BASE><BASE>"; "<COMPAT><COMPAT>"; <U0EDD> % LAO HO MO
 <U0EC0_U0EDD> "<S0EAB><S0EC0><S0EA1>"; "<BASE><BASE><BASE>"; "<COMPAT><COMPAT><COMPAT>"; <U0EC0_U0EDD> % E, HO MO
 <U0EC1_U0EDD> "<S0EAB><S0EC1><S0EA1>"; "<BASE><BASE><BASE>"; "<COMPAT><COMPAT><COMPAT>"; <U0EC1_U0EDD> % EI, HO MO
 <U0EC2_U0EDD> "<S0EAB><S0EC2><S0EA1>"; "<BASE><BASE><BASE>"; "<COMPAT><COMPAT><COMPAT>"; <U0EC2_U0EDD> % O, HO MO
 <U0EC3_U0EDD> "<S0EAB><S0EC3><S0EA1>"; "<BASE><BASE><BASE>"; "<COMPAT><COMPAT><COMPAT>"; <U0EC3_U0EDD> % AY, HO MO
 <U0EC4_U0EDD> "<S0EAB><S0EC4><S0EA1>"; "<BASE><BASE><BASE>"; "<COMPAT><COMPAT><COMPAT>"; <U0EC4_U0EDD> % AI, HO MO

<U0EAD> <S0EAD>;<BASE>;<MIN>;<U0EAD> % LAO LETTER O
 <U0EC0_U0EAD> "<S0EAD><S0EC0>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC0_U0EAD> % E, O
 <U0EC1_U0EAD> "<S0EAD><S0EC1>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC1_U0EAD> % EI, O
 <U0EC2_U0EAD> "<S0EAD><S0EC2>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC2_U0EAD> % O, O
 <U0EC3_U0EAD> "<S0EAD><S0EC3>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC3_U0EAD> % AY, O
 <U0EC4_U0EAD> "<S0EAD><S0EC4>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC4_U0EAD> % AI, O

<U0EAE> <S0EAE>;<BASE>;<MIN>;<U0EAE> % LAO LETTER HO TAM
 <U0EC0_U0EAE> "<S0EAE><S0EC0>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC0_U0EAE> % E, HO TAM
 <U0EC1_U0EAE> "<S0EAE><S0EC1>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC1_U0EAE> % EI, HO TAM
 <U0EC2_U0EAE> "<S0EAE><S0EC2>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC2_U0EAE> % O, HO TAM
 <U0EC3_U0EAE> "<S0EAE><S0EC3>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC3_U0EAE> % AY, HO TAM
 <U0EC4_U0EAE> "<S0EAE><S0EC4>"; "<BASE><BASE>"; "<MIN><MIN>"; <U0EC4_U0EAE> % AI, HO TAM

%%%%%%%%%% After all scripts, among the Hangul vowels and other Indic vowels %%%

%% Thai (dependent) vowels:

<U0E30> <S0E30>;<BASE>;<MIN>;<U0E30> % THAI CHARACTER SARA A
<U0E31> <S0E31>;<BASE>;<MIN>;<U0E31> % THAI CHARACTER MAI HAN-AKAT
<U0E32> <S0E32>;<BASE>;<MIN>;<U0E32> % THAI CHARACTER SARA AA
<U0E4D_U0E32> <S0E33>;<BASE>;<MIN>;<U0E33> % THAI CHARACTER NIKHAHIT, THAI CHARACTER SARA AA
<U0E33> <S0E33>;<BASE>;<COMPAT>;<U0E33> % THAI CHARACTER SARA AM
<U0E34> <S0E34>;<BASE>;<MIN>;<U0E34> % THAI CHARACTER SARA I
<U0E35> <S0E35>;<BASE>;<MIN>;<U0E35> % THAI CHARACTER SARA II
<U0E36> <S0E36>;<BASE>;<MIN>;<U0E36> % THAI CHARACTER SARA UE
<U0E37> <S0E37>;<BASE>;<MIN>;<U0E37> % THAI CHARACTER SARA UEE
<U0E38> <S0E38>;<BASE>;<MIN>;<U0E38> % THAI CHARACTER SARA U
<U0E39> <S0E39>;<BASE>;<MIN>;<U0E39> % THAI CHARACTER SARA UU

%% Thai reordering (dependent) vowels:

<U0E40> <S0E40>;<BASE>;<MIN>;<U0E40> % THAI CHARACTER SARA E
<U0E41> <S0E41>;<BASE>;<MIN>;<U0E41> % THAI CHARACTER SARA AE
<U0E42> <S0E42>;<BASE>;<MIN>;<U0E42> % THAI CHARACTER SARA O
<U0E43> <S0E43>;<BASE>;<MIN>;<U0E43> % THAI CHARACTER SARA AI MAIMUAN
<U0E44> <S0E44>;<BASE>;<MIN>;<U0E44> % THAI CHARACTER SARA AI MAIMALAI

%%%%%%%%%% Logical place is after some consonants(!), including tone mark or
%%%%%%%%%% nikhahit applied to the consonants. Ordering pretends it is one vowel
%%%%%%%%%% after the next consonant, while it may actually be pronounced even later.

%% Lao (dependent) vowels:

```
<U0EB0> <S0EB0>;<BASE>;<MIN>;<U0EB0> % LAO VOWEL SIGN A
<U0EB1> <S0EB1>;<BASE>;<MIN>;<U0EB1> % LAO VOWEL SIGN MAI KAN
<U0EB2> <S0EB2>;<BASE>;<MIN>;<U0EB2> % LAO VOWEL SIGN AA
<U0ECD_U0EB2> <S0EB3>;<BASE>;<MIN>;<U0EB3> % LAO NIGGAHITA, LAO VOWEL SIGN AA
<U0EB3> <S0EB3>;<BASE>;<COMPAT>;<U0EB3> % LAO VOWEL SIGN AM
<U0EB4> <S0EB4>;<BASE>;<MIN>;<U0EB4> % LAO VOWEL SIGN I
<U0EB5> <S0EB5>;<BASE>;<MIN>;<U0EB5> % LAO VOWEL SIGN II
<U0EB6> <S0EB6>;<BASE>;<MIN>;<U0EB6> % LAO VOWEL SIGN Y
<U0EB7> <S0EB7>;<BASE>;<MIN>;<U0EB7> % LAO VOWEL SIGN YY
<U0EB8> <S0EB8>;<BASE>;<MIN>;<U0EB8> % LAO VOWEL SIGN U
<U0EB9> <S0EB9>;<BASE>;<MIN>;<U0EB9> % LAO VOWEL SIGN UU
<U0EBB> <S0EBB>;<BASE>;<MIN>;<U0EBB> % LAO VOWEL SIGN MAI KON
<U0EBC> <S0EBC>;<BASE>;<MIN>;<U0EBC> % LAO SEMIVOWEL SIGN LO
<U0EBD> <S0EBD>;<BASE>;<MIN>;<U0EBD> % LAO SEMIVOWEL SIGN NYO
```

%% Lao reordering (dependent) vowels:

```
<U0EC0> <S0EC0>;<BASE>;<MIN>;<U0EC0> % LAO VOWEL SIGN E
<U0EC1> <S0EC1>;<BASE>;<MIN>;<U0EC1> % LAO VOWEL SIGN EI
<U0EC2> <S0EC2>;<BASE>;<MIN>;<U0EC2> % LAO VOWEL SIGN O
<U0EC3> <S0EC3>;<BASE>;<MIN>;<U0EC3> % LAO VOWEL SIGN AY
<U0EC4> <S0EC4>;<BASE>;<MIN>;<U0EC4> % LAO VOWEL SIGN AI
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% Logical place is after some consonants(!), including tone mark or
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% nikhahit applied to the consonants. Ordering pretends it is one vowel
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% after the next consonant, while it may actually be pronounced even later.
```