1. Introduction. Van Anderson’s work toward encoding Duployan is quite excellent. Ireland has no reservations about the character set proposed for encoding. We have, however, technical concerns about the structure of the code table proposed in document N3895.

Our technical concerns have to do with the proposed sorting order. Mr Anderson notes that, for the most part, users of Duployan shorthands and Chinook have had very little experience with actually sorted text. In the context of UCS implementation, of course, this will not be the case. Files named in Duployan will be sorted by the OS. The question is how.

2. Sorting by shape. Mr Anderson rightly constructs an ordering based on shape. Although it is probable that few users of Duployan have expectations about ordering, basing an ordering on shape is a sensible and useful way of proceeding. It is not without precedent. Users of Blissymbols have a dictionary which has three separate orderings:

- Finding Symbols by Word (an English-to-Bliss glossary)
- Finding Symbols by Meaning (a thesaurus arranged by semantic field)
- Finding Symbols by Shape (a Bliss-to-English dictionary ordered by character)

Mr Anderson’s ordering based on shape will very likely prove to be useful to users of Duployan. Certainly the same principles as applied in Blissymbols have been implemented very successfully, and users of the Blissymbol Reference Guide have learnt the sequence quickly and have no trouble finding things by shape.

3. Organization of the code chart. Although we recognize and agree that the ISO/IEC 14651 and the Unicode Collation Algorithm ordering as specified in N3895 is useful, we believe that the ordering of the characters as presented in the code chart will prove to work against the end user in environments where 14651 and the UCA are not properly implemented. The code chart sequence arranges the characters according to quite different criteria than those which are used for ordering, and we do not believe that the proposer’s chart ordering could be or should be considered useful to the end user. We do recognize that it has a structure. Unfortunately the structure is based on the wrong axis, in our view.

A look at the code table in N3895 shows that it is organized on a horizontal axis. This makes for an attractive code table with some pedagogical features—but this does not make a useful code table in terms of technical functionality. Having acknowledged the usefulness of Mr Anderson’s proposed ordering scheme, we suggest that the code chart order also be based on the principles of Mr Anderson’s
sorting order, rather than on a secondary classification as it currently is. The benefit of this will be
immediate—even a binary sort of data based on such a system will be more similar to the specification of
14651 and the UCA than a binary sort based on the code chart of N3895 would be.

4. “Optimization”. Mr Anderson’s proposal suggests that some sort of “optimization” might be had if
columns 0 and 1 contain high-frequency characters. We do not believe that any genuine benefit accrues
here. The Basic Latin and Latin-1 binary sort does not interfile AaÁáBbCcÇçDdÐð, but rather
ABCDabcd and ÁÇÐáçð respectively, and the letters in Latin 1 (which constitute the bulk of Latin-script
languages used) is distant enough from the four columns in Basic Latin. “Optimization” is evidently no
great concern there.

Our view is that the better optimization of the Duployan code chart would be to have its binary order
follow the order proposed for sorting the script in general. We give a chart below which orders Duployan
according to those principles. We have not altered any of the glyphs or character names in Mr Anderson’s
proposal, apart from the five “dotted-box” glyphs which we have normalized to the same conventions of
size of similar glyphs in the UCS. We also made some corrections to spelling errors in the informative
annotations in the names list.

5. Issue: Expansion. In Mr Anderson’s proposal some blanks are left here and there within the code
chart, evidently for potential additions. For instance, between U+1BC63 and U+1BC66 two spaces are
left. One might surmise that the following two characters are envisaged:

\[ \begin{array}{c}
1BC63 & - \\
1BC64 & -
\end{array} \]

We would have no issue with re-inserting such gaps in the re-ordered chart and would welcome Mr
Anderson’s advice on this point.

6. Issue: Ordering within shape-classes. In some instances we are uncertain why the specific ordering
has been chosen. For example, Mr Anderson’s ordering gives the following:

We are not certain why the long arcs have been inserted where they are. Why is the sequence not the
following, which does not break up the original triple of arc, arc-with-stroke, and arc-with-dot?

Another example which seems to be inconsistent is based on the arc-with-dot patterns. If dot-above
precedes dot-below in the consonants, why does it not do so in the vowels? In the example below, the
first four characters are ordered as in Mr Anderson’s proposal, and the second four show an ordering
which we might recommend.

vs
A third example has to do with the half-arcs. Shouldn’t the relative ordering of the vowel arcs be consistent with the consonant arcs? In the example below, the first eight characters are ordered as in Mr Anderson’s proposal, and the second eight show an ordering which we might recommend.

A fourth example has to do with the quarter-arcs. Here there are downward sloping and upward sloping

Shouldn’t the relative ordering of the vowel arcs be consistent with the consonant arcs? In the example below, the first set of characters are ordered as in Mr Anderson’s proposal, and the second set shows an ordering which we might recommend.

We would also like clarification of the relative order of the quarter-circle vowels including DUPLOYAN LETTER U N and DUPLOYAN LETTER ROMANIAN U.

We would welcome discussion with Mr Anderson on these particulars, and perhaps the current ordering scheme could be made somewhat more regular, if it has not otherwise been optimized according to principles with which we are not familiar.

The Irish National Body favours the encoding of Mr Anderson’s Duployan character set, but would prefer a reorganization of the code chart. Such a reorganization might take place during ballot comments if there is not sufficient time to agree on the outstanding points before a new ballot is sent out after the Busan meeting of WG2.


Figure 1a. Sample from Anderson’s proposal showing lines in various orientations and sizes.

Figure 1b. Sample from Anderson’s proposal showing half-circles in various orientations and sizes.

Figure 1c. Sample from Anderson’s proposal showing quarter-circles in various orientations and sizes.

Figure 1d. Sample from Anderson’s proposal showing vowels arranged in various shapes.

Figure 1e. Sample from Anderson’s proposal showing secants and other connectors organized according to evidently sensible criteria.
Figure 2. Sample from Woods et al. 1992 showing the index to the “Finding Symbols by Shape” section of the Blissymbols Reference Guide.
**Figure 3.** Sample from Woods et al. 1992 showing a subset of the characters organized by half-circle in the “Finding Symbols by Shape” section of the Blissymbols Reference Guide. At the top of the page the “alphabet” is given and a square box shows which section the reader is in. This is used to help readers orient themselves when looking up Bliss-words.
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Dot consonants

1BC00 • DUPLOYAN LETTER H
  • Chinook, Pernin, Sloan, Perrault
  • non-joining character

1BC01 • DUPLOYAN LETTER X
  • Salishan
  • non-joining character

Vertical-line consonants

1BC02 • DUPLOYAN LETTER P
  • Chinook number 1

1BC03 • DUPLOYAN LETTER B
  → 1BC72 • duployan affix low vertical secant
  → 1BC73 • duployan affix mid vertical secant
  → 1BC74 • duployan affix high vertical secant

1BC04 • DUPLOYAN LETTER P N
  = Sloan B B
  → 1BC1E • duployan letter n

Horizontal-line consonants

1BC05 • DUPLOYAN LETTER T
  • Chinook number 2

1BC06 • DUPLOYAN LETTER TH
  • Chinook, Sloan, Pernin, Perrault

1BC07 • DUPLOYAN LETTER SLOAN DH

1BC08 • DUPLOYAN LETTER D
  → 1BC09 • duployan letter d

Horizontal-line consonants

1BC09 • DUPLOYAN LETTER DH
  • Chinook
  → 1BC08 • duployan letter d

1BC0A • DUPLOYAN LETTER D S
  = Sloan D D
  → 1BC2C • duployan letter s

Northwest-to-southeast diagonal-line consonants

1BC0B • DUPLOYAN LETTER F
  • Chinook number 3

1BC0C • DUPLOYAN LETTER V

1BC0D • DUPLOYAN LETTER F N
  = Sloan V V
  → 1BC1E • duployan letter n

Northeast-to-southwest diagonal-line consonants

1BC0E • DUPLOYAN LETTER K
  • Chinook number 4
  • written down and to the left

1BC0F • DUPLOYAN LETTER KK
  • Chinook
  • written down and to the left

1BC10 • DUPLOYAN LETTER G
  • written down and to the left

1BC11 • DUPLOYAN LETTER SLOAN J
  • written down and to the left

Southwest-to-northeast diagonal-line consonants

1BC12 • DUPLOYAN LETTER K M
  • written down and to the left
  = Sloan G G
  → 1BC19 • duployan letter m

1BC13 • DUPLOYAN LETTER L
  • written up and to the right
  = Pernin letter R

1BC14 • DUPLOYAN LETTER HL
  • Chinook
  • written up and to the right
  → 1BC15 • DUPLOYAN LETTER LH
  • Chinook
  • written up and to the right

1BC16 • DUPLOYAN LETTER R
  • Chinook number 5
  • French number milliards
  • written up and to the right
  = Pernin letter L
  = Pernin Reporters word repeat sign

1BC17 • DUPLOYAN LETTER RH
  • Chinook
  • written up and to the right

1BC18 • DUPLOYAN LETTER R S
  • written up and to the right
  = Sloan R R
  → 1BC2C • duployan letter s

Left half-circle consonants

1BC19 • DUPLOYAN LETTER M
  • Chinook Number 6

1BC1A • DUPLOYAN LETTER M N
  • Romanian Mai mult, not Romanian Mult mai shorthand sign
  → 1BC1E • duployan letter n

1BC1B • DUPLOYAN SIGN M WITH DOT
  = Romanian sign Mijloc)

1BC1C • DUPLOYAN LETTER M S
  = Sloan shorthand letter M M
  → 1BC1E • duployan letter n
  → 1BC2C • duployan letter s

Right half-circle consonants

1BC1E • DUPLOYAN LETTER N
  • Chinook number 7

1BC1F • DUPLOYAN LETTER N M
  • not Romanian nu nu shorthand sign
  → 1BC19 • duployan letter m

1BC20 • DUPLOYAN LETTER N WITH DOT
  = Chinook NG
  = Romanian sign NicI

1BC21 • DUPLOYAN LETTER N S
  = Pernin, Sloan, Perrault letter NG
  → 1BC2C • duployan letter s

1BC22 • DUPLOYAN LETTER N M S
  → 1BC19 • duployan letter m
  → 1BC2C • duployan letter s
Top half-circle consonants

1BC23 θ DUPLOYAN LETTER J
- Chinook number 8
- Chinko letter SH
- Pernin letter SH

1BC24 θ DUPLOYAN LETTER J M
- not Romanian ceea ce shorthand sign
  → 1BC19 ( duployan letter m

1BC25 Ω DUPLOYAN LETTER J N
  → 1BC1E ( duployan letter n

1BC26 θ DUPLOYAN LETTER J WITH DOT
  = Chinko, Romanian CH
  = Sloan ZH
  = Chinko, Perrault J

1BC27 θ DUPLOYAN SIGN J WITH DOTS INSIDE AND ABOVE
  = Romanian sign Ici

1BC28 θ DUPLOYAN LETTER J S
  = Romanian stenographic letter Ge
  = Pernin, Perrault letter ZH
  = Sloan letter CH
  → 1BC2C θ duployan letter s

1BC29 θ DUPLOYAN LETTER J M S
  → 1BC19 ( duployan letter m
  → 1BC2C θ duployan letter s

1BC2A Ω DUPLOYAN LETTER J N S
  → 1BC1E ( duployan letter n
  → 1BC2C θ duployan letter s

1BC2B Ω DUPLOYAN LETTER J S WITH DOT
  = Sloan letter hard CH
  = Pernin, Perrault letter Ch

Bottom half-circle consonants

1BC2C θ DUPLOYAN LETTER S
  - Chinook number 9
  - French Hundreds

1BC2D Ω DUPLOYAN LETTER S J
  - not Romanian sa se shorthand sign
  → 1BC23 θ duployan letter j

1BC2E Ω DUPLOYAN LETTER S WITH DOT
  = Chinko TS
  = Chinko, Romanian, Sloan Z

1BC2F Ω DUPLOYAN LETTER S WITH DOT BELOW
  = Romanian Sh

1BC30 Ω DUPLOYAN LETTER S S
  - French, Sloan
  = Romanian stenographic letter Ts
  = Pernin, Perrault letter Z
  → 1BC2C θ duployan letter s

1BC31 Ω DUPLOYAN LETTER S J S
  → 1BC23 θ duployan letter j

Downward-sloping quarter-arc consonants

1BC32 Ω DUPLOYAN LETTER S T
  - Pernin, Perrault
  - written down
  = Sloan SM

1BC33 Ω DUPLOYAN LETTER S T R
  - Pernin, Perrault
  - written down
  = Sloan SN

1BC34 Ω DUPLOYAN LETTER S P
  - Pernin, Perrault
  - written down
  = Sloan KW

1BC35 Ω DUPLOYAN LETTER S P R
  - Pernin, Perrault
  - written down
  = Sloan SKW

1BC36 Ω DUPLOYAN LETTER T S
  - written down
  - Perrault
  = Sloan STD

1BC37 Ω DUPLOYAN LETTER T R S
  - written down
  - Perrault
  = Sloan SST

1BC38 Ω DUPLOYAN LETTER W
  - Sloan, Perrault, Pernin
  - written down
  - takes form of a hook or wave after K and G

1BC39 Ω DUPLOYAN LETTER WH
  - written down

1BC3A Ω DUPLOYAN LETTER W R
  - written down
  - Perrault
  = Sloan SW

1BC3B Ω DUPLOYAN LETTER S N
  - written up
  - Pernin KRS
  = Sloan SP

1BC3C Ω DUPLOYAN LETTER S M
  - written up
  - Perrault
  = Pernin GRS
  = Sloan SL

1BC3D Ω DUPLOYAN LETTER K R S
  - written up
  - Pernin, Perrault
  = Sloan TS

1BC3E Ω DUPLOYAN LETTER G R S
  - written up
  - Perrault

1BC3F Ω DUPLOYAN LETTER S K
  - written up
  - Perrault, Pernin
  = Sloan TS

1BC40 Ω DUPLOYAN LETTER S K R
  - written up
  - Perrault, Pernin
  = Sloan DS

Large circle vowels

1BC41 Ω DUPLOYAN LETTER O
  - Chinook number 0

1BC42 Ω DUPLOYAN LETTER WO
  - Chinook

1BC43 Ω DUPLOYAN LETTER AOU
Small circle vowels

1BC44 • DUPLOYAN LETTER A
  • Chinook number 10s
1BC45 • DUPLOYAN LETTER WA
  • Chinook
  • Not Romanian O+A
    = Pernin letter OY
  • Chinook number 100s
1BC46 • DUPLOYAN LETTER OA
  = Pernin letter AW
  = Perrault letter AW
1BC47 • DUPLOYAN LETTER SLOAN OW
  • reverse circle vowel

Small half-circle vowels

1BC48 • DUPLOYAN LETTER I
  • character rotates to match entry angle of preceding consonant
  • character has primary orientation (right and up)
    = Perrault letter long A, short E (with accents)
    → 1BC6F : duployan affix attached c hook
    → 1BC6E : duployan affix attached i hook
    → 1BC4F : duployan letter short i
    → 1BC50 : duployan letter ee
    → 1BC51 : duployan letter ie
    → 1BC52 : duployan letter ui

1BC49 • DUPLOYAN LETTER EI
  • character rotates to match entry angle of preceding consonant
  • character has secondary orientation (left and down)
    = Sloan letter long A
    = Perrault letter short I, long E (with dot accent)
    → 1BC6F : duployan affix attached e hook

1BC4A • DUPLOYAN LETTER WI
  • Chinook
1BC4B • DUPLOYAN LETTER WEI
  • Salishan
1BC4C • DUPLOYAN LETTER ROMANIAN I
  • character rotates to match entry angle of preceding consonant, with dot maintaining relative position
  • secondary orienting (left and down)
1BC4D • DUPLOYAN LETTER SLOAN EH
1BC4E • DUPLOYAN LETTER SLOAN EE

Medium half-circle vowels

1BC4F • DUPLOYAN LETTER SHORT I
  • Pernin, Duployan shorthand
  • used as an invariant vowel and for orienting word abbreviations consisting of only vowels
    → 1BC48 : duployan letter i
    = Consolidated Duployan letter R TR
1BC50 • DUPLOYAN LETTER EE
  • Pernin, Duployan shorthand
  • used as an invariant vowel and for orienting word abbreviations consisting of only vowels
    → 1BC48 : duployan letter i

1BC51 • DUPLOYAN LETTER IE
  • Duployan shorthand
  • used as an invariant vowel and for orienting word abbreviations consisting of only vowels
    → 1BC48 : duployan letter i
    = Pernin letter A
1BC52 • DUPLOYAN LETTER UI
  • Duployan shorthand
  • used as an invariant vowel and for orienting word abbreviations consisting of only vowels
    → 1BC48 : duployan letter i
    = Pernin letter E

Diagonal-line vowels

1BC53 • DUPLOYAN LETTER YE
1BC54 • DUPLOYAN LETTER LONG I
  • Pernin
  • angles like an “f” when adjacent a K-type consonant

Quarter-circle vowels

1BC55 • DUPLOYAN LETTER U
  • character rotates to match entry angle of preceding consonant
  • character has primary orientation (right and up)
    = Romanian stenographic letter EN
    → 1BC60 : duployan letter romanian u
    → 1BC38 : duployan letter w
    → 1BC59 : duployan letter long u
1BC56 • DUPLOYAN LETTER EU
  • character rotates to match entry angle of preceding consonant
  • character has secondary orientation (left and down)
  • in French usage, may be rendered with a dot contextually
    = Romanian stenographic letter AN
1BC57 • DUPLOYAN LETTER XW
  = Perrault Uh
  • not French Eu
1BC58 • DUPLOYAN LETTER U N
  → 1BC1E • duployan letter n

Oblong circle vowels

1BC59 • DUPLOYAN LETTER LONG U
  • Pernin, Perrault
  • this vowel does not rotate to match entry angle of preceding consonant
    → 1BC5D : duployan letter ou
1BC5A • DUPLOYAN LETTER UH
  • Sloan
    → 1BC50 : duployan letter ou
1BC5B • DUPLOYAN LETTER OOH
  • Sloan
    → 1BC50 : duployan letter ou
1BC5C • DUPLOYAN LETTER SLOAN U
  → 1BC5D : duployan letter ou

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Dot vowels

1BC5D o DUPLOYAN LETTER OU
* should not be used for Perrault Ow
≈ <initial, final> 1BC5E o
= Chinook letter oo
→ 1BC60 o duployan letter romanian u
→ 1BC5A o duployan letter uh
→ 1BC5B o duployan letter ooh
→ 1BC5C o duployan letter sloan u
1BC5E o DUPLOYAN LETTER OW
* should not be used for Romanian U
≈ <medial> 1BC60 o
1BC5F O DUPLOYAN LETTER WOW
* Salishan

Small quarter-circle vowels

1BC60 o DUPLOYAN LETTER ROMANIAN U
→ 1BC5E o duployan letter ow
1BC61 : DUPLOYAN LETTER VOCALIC M
* primary orienting vowel
= Perrault letters Am, Em, Im, Um (with accents)
1BC62 - DUPLOYAN LETTER NASAL I
* character positions diacritically, as an orienting vowel, or as an invariant vowel
* primary orientation
* invariant direction down
* Romanian multiplicative number prefix
= Pernin letter IM
= Consolidated Duployan affix INT-R-
1BC63 - DUPLOYAN LETTER NASAL U
* character positions diacritically, as an orienting vowel, or as an invariant vowel
* secondary orientation
* invariant direction down
* French number I
= Pernin letter IN
= Consolidated Duployan affix INT-R-
1BC64 - DUPLOYAN LETTER NASAL O
* character positions diacritically, as an orienting vowel, or as an invariant vowel
* neutral nasal vowel for transcription of an ambiguous secondary orienting nasal vowel
* secondary orientation
* invariant direction up
* Pernin letter OM
= Perrault letters An, En, In, Un (with accents)
= Pernin letter IM
= Consolidated Duployan affix INT-R-
1BC65 - DUPLOYAN LETTER NASAL A
* Perrault vocalic N - An, En, In, Un (with accents)
* character positions diacritically, as an orienting vowel, or as an invariant vowel
* neutral nasal vowel for transcription of an ambiguous primary orienting nasal vowel
* primary orientation
* invariant direction up
= Pernin letter ON
* Romanian stenographic letter YN
1BC66 - DUPLOYAN LETTER PERNIN AN
* written down

Attached affixes

1BC68 - DUPLOYAN AFFIX ATTACHED SECANT
* dots show position on and relative orientation to base glyph and are not rendered
* as a prefix, takes opposite relative position to following glyph
* generally crosses adjacent character at perpendicular, but has a bias towards SW/NE angle to contrast 1BC71 -
* default neutral secant affix
= French suffix -anse
= Pernin prefix Pre-
= Sloan affix Ax-/-ext
1BC69 - DUPLOYAN AFFIX ATTACHED TANGENT
* dots show position on and relative orientation to base glyph and are not rendered
* as a prefix, takes opposite relative position to following glyph
= French suffix -tan
= Romanian shorthand letter Str/-/-str
1BC6E : DUPLOYAN AFFIX ATTACHED TAIL
* orienting character
= French suffix -sionaire
1BC6F . DUPLOYAN AFFIX ATTACHED I Hook
* glyph is retrograde and opens left or right, dependent on preceding letter
* dots show position of preceding glyph and are not rendered
→ 1BC48 - duployan letter i
= French suffix -tou
= Sloan affix Irre-/-ary
1BC70 - DUPLOYAN AFFIX ATTACHED E Hook
* glyph is retrograde and opens up or down, dependent on preceding letter
* dots show position of preceding glyph and are not rendered
→ 1BC49 - duployan letter e
= French suffix -te
1BC71 - DUPLOYAN AFFIX ATTACHED TANGENT HOOK
* attached affix
* dots show position on and relative orientation to base glyph and are not rendered
* Romanian affix Ist/-/-ism
= Consolidated Duployan prefix T-R-
= Duployan affix INT-R-
1BC72 - DUPLOYAN AFFIX ATTACHED LEFT-TO-RIGHT SECANT
* dots show position on and relative orientation to base glyph and are not rendered
* generally crosses adjacent character at perpendicular, but has a bias towards NW/SE angle to contrast 1BC68 -
* as a suffix, takes opposite relative position to following glyph
= Pernin prefix Per-
Vertical affixes

1BC72 ⊳ DUPLYAN AFFIX LOW VERTICAL SECANT
   = Pernin Reporters Sub-
   • dots show position on base glyph and are not rendered
   → 1BC03 ⊳ duployan letter b

1BC73 ⊳ DUPLYAN AFFIX MID VERTICAL SECANT
   = Pernin Reporters Trans-
   • dots show position on base glyph and are not rendered
   → 1BC03 ⊳ duployan letter b

1BC74 ⊳ DUPLYAN AFFIX HIGH VERTICAL SECANT
   = Pernin Reporters Super-
   • dots show position on base glyph and are not rendered
   → 1BC03 ⊳ duployan letter b

Horizontal affixes

1BC75 ⊳ DUPLYAN AFFIX LEFT HORIZONTAL SECANT
   = Pernin Reporters Extra-
   • dots show position on base glyph and are not rendered
   → 1BC08 — duployan letter d

1BC76 ⊳ DUPLYAN AFFIX MID HORIZONTAL SECANT
   = Pernin Reporters Inter-
   • dots show position on base glyph and are not rendered
   → 1BC08 — duployan letter d

1BC77 ⊳ DUPLYAN AFFIX RIGHT HORIZONTAL SECANT
   = Pernin Reporters Contra-
   • dots show position on base glyph and are not rendered
   → 1BC08 — duployan letter d

High affixes

1BC78 ⊳ DUPLYAN AFFIX HIGH ACUTE
   = French suffix -ment
   = Romanian suffix -mant
   = Pernin Sub-
   = Pernin Reporters' suffix Pro-
   → 02CA ˊ modifier letter acute accent

1BC79 ⊳ DUPLYAN AFFIX HIGH TIGHT ACUTE
   = Pernin Pro-
   • as a suffix, placed above and to the right of the following letter

1BC7A ⊳ DUPLYAN AFFIX HIGH GRAVE
   = French suffix -ien
   = Pernin suffix Con-
   → 02CB ˙ modifier letter grave accent

1BC7B ⊳ DUPLYAN AFFIX HIGH LONG GRAVE
   = Pernin Contra-

1BC7C ⊳ DUPLYAN AFFIX HIGH DOT
   • not Romanian hundreds - use U+0307 ?option
   • not Romanian thousands - use U+0308 ?option
   • French number thousands
   = French suffix -eure
   = Romanian shorthand affix trans/-lui
   → 02D9 ˇ dot above

1BC7D ⊳ DUPLYAN AFFIX HIGH CIRCLE
   • Not Romanian number grade or percent suffix
   • French ordinal number
   = French suffix -euse
   = 00B0 ° degree sign
   = 02DA ˝ ring above

1BC7E ⊳ DUPLYAN AFFIX HIGH LINE
   = French suffix -iste
   = Romanian shorthand affix -tor
   = Pernin affix Dis-
   → 02C9 ˝ modifier letter macron

1BC7F ⊳ DUPLYAN AFFIX HIGH WAVE
   = French suffix -ificatif
   → 02DC ˜ small tilde

1BC80 ⊳ DUPLYAN AFFIX HIGH VERTICAL
   • also functions as attached affix vertical up with ZWJ
   • this affix is about half as long as Duployan Letter P
   • as a prefix, has falling stroke direction
   = Pernin ZWJ + -ime
   = Sloan Tele-
   → 1BC02 ⊳ duployan letter p

Low affixes

1BC81 ⊳ DUPLYAN AFFIX LOW ACUTE
   = French suffix -cion
   = Pernin prefix ex-
   → 02CF ˏ modifier letter low acute accent

1BC82 ⊳ DUPLYAN AFFIX LOW TIGHT ACUTE
   = Pernin Suf-, Sug-
   • as a suffix, placed under and to the right of the following letter

1BC83 ⊳ DUPLYAN AFFIX LOW GRAVE
   = French suffix -ion
   • French number millions
   → 02CE ˎ modifier letter low grave accent

1BC84 ⊳ DUPLYAN AFFIX LOW LONG GRAVE
   = Pernin Extra-

1BC85 ⊳ DUPLYAN AFFIX LOW DOT
   = French suffix -ie
   • French iterative number
   = Romanian shorthand affix Inter-
   • not Romanian millions - see U+0323 $ ̣ combining dot below and U+0324 $ ̤ combining diaeresis below

1BC86 ⊳ DUPLYAN AFFIX LOW CIRCLE
   = French suffix -iere
   • French percent
   → 02F3 ˛ modifier letter low ring

1BC87 ⊳ DUPLYAN AFFIX LOW LINE
   = French suffix -isme
   = Pernin affix Mis-
   → 02D7 ˉ modifier letter minus sign

1BC88 ⊳ DUPLYAN AFFIX LOW WAVE
   = French suffix -ification
   → 02F7 ˜ modifier letter low tilde
1BC89 , DUPLOYAN AFFIX LOW VERTICAL
  • functions as attached affix vertical down with ZWJ
  • this affix is about half as long as Duployan the letter P
  • as a prefix, has rising stroke direction
    = Pernin ZWJ + -ine
    → 1BC02 \ duployan letter p
1BC8A , DUPLOYAN AFFIX LOW ARROW
  = Romanian prefix Sub-
  • low affix

Chinook sign
1BC8B • DUPLOYAN SIGN O WITH CROSS
  • Chinook Likalisti

Sloan R-form selector
1BC8C ⌫ DUPLOYAN THICK LETTER SELECTOR
  • commonly abbreviated DTLS
  • Sloan R-flavored letters
  • Shape shown is arbitrary and is not visibly rendered
  • Causes previous Duployan character to be rendered bold

Shorthand double mark
1BC8D \ DUPLOYAN DOUBLE MARK
  • Dots show position on and relative orientation to base glyph and are not rendered
  • Romanian, Sloan shorthands
  • Should be used with M, N, J, and S for the Romanian word signs Mai mult, Nu nu, Ceea ce, and Sa se
  • Can be doubled and tripled

Chinook punctuation
1BC8E = DUPLOYAN PUNCTUATION CHINOOK FULL STOP
**Shorthand Format Controls**

1BCA0  

[Symbol 1BCA0]

- shape shown is arbitrary and is not visibly rendered

1BCA1  

[Symbol 1BCA1]

- shape shown is arbitrary and is not visibly rendered

1BCA2  

[Symbol 1BCA2]

- Romanian shorthand affix -tsion-  
- Sloan contracted ending oo/o + ZWSP  
- shape shown is arbitrary and is not visibly rendered

1BCA3  

[Symbol 1BCA3]

- Sloan contracted ending uh/au/au + ZWSP  
- shape shown is arbitrary and is not visibly rendered

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Date: 2010-09-21