

Appendix D: The Finite-state Acceptors

November 28, 2007

This appendix provides the finite state acceptors for the 109 patterns described in Appendix A. Each finite state acceptor is the tail canonical acceptor for the pattern.

The acceptors are to be interpreted as follows. The start state of each acceptor is not marked in the table below because for each acceptor it is “0”. The acceptors below have two components, the transitions and the final states. Transitions are given as a list of 3-tuples, and final states are a list of numbers in bold. The transitions are interpreted as follows: (origin, terminus, label). For example, the transition (0,2,w1.s2) means there is transition from state 0 to state 2 with the label w1.s2. The label also requires some interpretation. The number after the ‘w’ indicates the type of syllable, with lighter syllables having smaller numbers. Thus a stress pattern which makes a heavy/light distinction will only have labels with ‘w0’ (light) or ‘w1’ (heavy) before the period. Note in some patterns with both prominence and weight distinctions, more than one syllable type may be considered light (e.g. in Ashéninca, ‘w0’ and ‘w1’ are both light syllables). The number after the ‘s’ indicates the amount of stress: 0 means no stress, 1 means secondary stress and 2 means primary stress. Thus in a stress pattern that distinguishes heavy and light syllables the label w0.s2 indicates a primary stressed light syllable.

Table 1: Acceptors

#	Name	Acceptor
1	Afrikaans	(0,1,w0.s2), (1,1,w0.s0) 1
2	Abun West	(0,0,w0.s0), (0,1,w0.s2) 1
3	Diegueño roots	(0,1,w1.s2), (0,2,w0.s0), (0,2,w1.s0), (2,1,w0.s2), (2,1,w1.s2), (2,2,w0.s0), (2,2,w1.s0) 1
4	Agul North	(0,1,w0.s2), (0,2,w0.s0), (2,3,w0.s2), (3,3,w0.s0) 1,3
5	Alawa	(0,1,w0.s2), (0,3,w0.s0), (1,2,w0.s0), (3,3,w0.s0), (3,4,w0.s2), (4,2,w0.s0) 1,2
6	Mohawk	(0,0,w0.s0), (0,1,w0.s2), (1,2,w0.s0) 2
7	Cora	(0,1,w0.s2), (0,4,w0.s0), (1,2,w0.s0), (2,3,w0.s0), (4,4,w0.s0), (4,5,w0.s2), (5,6,w0.s0), (6,3,w0.s0) 1,2,3
8	Paamese	(0,1,w0.s2), (0,4,w0.s0), (1,2,w0.s0), (2,3,w0.s0), (4,4,w0.s0), (4,5,w0.s2), (5,6,w0.s0), (6,3,w0.s0) 2,3
9	Bhojpuri	(0,1,w0.s2), (0,3,w0.s0), (1,2,w0.s0), (3,4,w0.s2), (3,5,w0.s0), (4,1,w0.s0), (5,5,w0.s0), (5,6,w0.s2), (6,7,w0.s0), (7,2,w0.s0) 1,2

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#	Name	Acceptor
10	Içuã Tupi	(0,1,w0.s2), (0,3,w0.s0), (1,2,w0.s0), (3,4,w0.s2), (3,5,w0.s0), (4,2,w0.s0), (5,6,w0.s2), (5,7,w0.s0), (6,1,w0.s0), (7,7,w0.s0), (7,8,w0.s2), (8,4,w0.s0) 1,2
11	Bulgarian	(0,0,w0.s0), (0,1,w0.s2), (1,1,w0.s0) 1
12	Gugu-Yalanji	(0,1,w0.s2), (1,2,w0.s1), (1,4,w0.s0), (2,3,w0.s0), (4,2,w0.s1), (4,4,w0.s0) 1,3
13	Sorbian	(0,1,w0.s2), (1,2,w0.s0), (2,3,w0.s1), (2,5,w0.s0), (3,4,w0.s0), (5,3,w0.s1), (5,6,w0.s0), (6,3,w0.s1), (6,6,w0.s0) 1,2,4,5
14	Walmatjari	(0,1,w0.s2), (1,2,w0.s0), (2,3,w0.s1), (2,6,w0.s0), (3,4,w0.s0), (4,5,w0.s0), (6,3,w0.s1), (6,7,w0.s0), (7,3,w0.s1), (7,7,w0.s0) 1,2,4,5,6
15	Mingrelian	(0,1,w0.s2), (1,2,w0.s1), (1,5,w0.s0), (2,3,w0.s0), (3,4,w0.s0), (5,2,w0.s1), (5,6,w0.s0), (6,2,w0.s1), (6,7,w0.s0), (7,2,w0.s1), (7,7,w0.s0) 1,4,5,6
16	Armenian	(0,1,w0.s1), (1,1,w0.s0), (1,2,w0.s2) 2
17	Udihe	(0,1,w0.s2), (0,2,w0.s1), (0,4,w0.s0), (2,3,w0.s0), (3,1,w0.s2), (3,3,w0.s0), (4,1,w0.s2) 1
18	Anyula	(0,1,w0.s2), (0,3,w0.s1), (0,6,w0.s0), (1,2,w0.s0), (3,4,w0.s0), (4,4,w0.s0), (4,5,w0.s2), (5,2,w0.s0), (6,5,w0.s2) 1,2
19	Georgian	(0,1,w0.s2), (0,4,w0.s1), (0,8,w0.s0), (1,2,w0.s0), (2,3,w0.s0), (4,5,w0.s0), (5,5,w0.s0), (5,6,w0.s2), (6,7,w0.s0), (7,3,w0.s0), (8,6,w0.s2) 1,2,3
20	Bagandji	(0,1,w0.s2), (1,2,w0.s0), (2,1,w0.s1) 1,2
21	Maranungku	(0,1,w0.s2), (1,2,w0.s0), (2,3,w0.s1), (3,2,w0.s0) 2,3
22	Asmat	(0,1,w0.s2), (0,2,w0.s1), (0,3,w0.s0), (2,3,w0.s0), (3,1,w0.s2), (3,2,w0.s1) 1
23	Araucanian	(0,1,w0.s0), (1,2,w0.s2), (2,3,w0.s0), (3,2,w0.s1) 2,3
24	Anejom	(0,1,w0.s2), (0,3,w0.s1), (0,4,w0.s0), (1,2,w0.s0), (3,4,w0.s0), (4,3,w0.s1), (4,5,w0.s2), (5,2,w0.s0) 1,2
25	Cavinena	(0,1,w0.s2), (0,3,w0.s1), (0,4,w0.s0), (1,2,w0.s0), (3,4,w0.s0), (4,1,w0.s2), (4,3,w0.s1) 2
26	Anguthimri	(0,1,w0.s2), (1,2,w0.s0), (2,3,w0.s1), (2,4,w0.s0), (3,2,w0.s0) 1,2,4
27	Bidyara Gungabula	(0,1,w0.s2), (1,2,w0.s0), (2,1,w0.s1), (2,3,w0.s0) 2,3
28	Burum	(0,1,w0.s2), (1,2,w0.s0), (2,1,w0.s1), (2,3,w0.s0) 1,2,3
29	Garawa	(0,1,w0.s2), (1,2,w0.s0), (2,3,w0.s1), (2,4,w0.s0), (3,4,w0.s0), (4,3,w0.s1) 1,2,4
30	Indonesian	(0,1,w0.s2), (0,3,w0.s1), (0,8,w0.s0), (1,2,w0.s0), (3,4,w0.s0), (4,5,w0.s2), (4,6,w0.s1), (4,7,w0.s0), (5,2,w0.s0), (6,7,w0.s0), (7,5,w0.s2), (7,6,w0.s1), (8,5,w0.s2) 1,2
31	Piro	(0,1,w0.s2), (0,3,w0.s1), (0,6,w0.s0), (1,2,w0.s0), (3,4,w0.s0), (4,3,w0.s1), (4,5,w0.s2), (4,6,w0.s0), (5,2,w0.s0), (6,5,w0.s2) 1,2
32	Malakmalak	(0,1,w0.s2), (0,6,w0.s0), (1,2,w0.s0), (2,3,w0.s1), (2,5,w0.s0), (3,4,w0.s0), (4,3,w0.s1), (6,3,w0.s2) 1,2,4,5
33	Gosiute Shoshone	(0,1,w0.s2), (1,2,w0.s1), (1,3,w0.s0), (3,1,w0.s1) 1,2
34	Tauya	(0,1,w0.s2), (0,2,w0.s1), (2,1,w0.s2), (2,3,w0.s1), (2,4,w0.s0), (3,4,w0.s0), (4,1,w0.s2), (4,3,w0.s1) 1
35	Southern Paiute	(0,1,w0.s2), (0,3,w0.s0), (1,2,w0.s0), (3,4,w0.s2), (4,1,w0.s1), (4,5,w0.s0), (5,4,w0.s1) 2,5
36	Biangai	(0,1,w0.s2), (0,3,w0.s1), (1,2,w0.s1), (3,4,w0.s2), (3,5,w0.s1), (3,6,w0.s0), (4,2,w0.s0), (5,6,w0.s0), (6,4,w0.s2), (6,5,w0.s1) 2

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#	Name	Acceptor
37	Central Alaskan Yupik	(0,1,w0.s0), (1,0,w0.s1), (1,2,w0.s2) 2
38	Cayuvava	(0,1,w0.s2), (0,4,w0.s1), (0,9,w0.s0), (1,2,w0.s0), (2,3,w0.s0), (4,5,w0.s0), (5,6,w0.s0), (6,4,w0.s1), (6,7,w0.s2), (7,8,w0.s0), (8,3,w0.s0), (9,4,w0.s1), (9,6,w0.s0), (9,7,w0.s2) 2,3
39	Ioway-Oto	(0,1,w0.s2), (0,2,w0.s0), (2,3,w0.s2), (3,4,w0.s0), (4,5,w0.s0), (5,3,w0.s1) 1,3,4,5
40	Murik	(0,1,w0.s2), (0,1,w1.s2), (0,2,w0.s0), (1,1,w0.s0), (2,1,w1.s2), (2,2,w0.s0) 1
41	Lithuanian	(0,0,w0.s0), (0,1,w1.s2), (1,1,w0.s0), (1,1,w1.s0) 1
42	Amele	(0,1,w1.s2), (0,2,w0.s2), (0,3,w0.s0), (1,1,w0.s0), (1,1,w1.s0), (2,2,w0.s0), (3,1,w1.s2), (3,3,w0.s0) 1,2
43	Mongolian Khalkha (per Street)	(0,1,w1.s2), (0,2,w0.s2), (0,3,w0.s0), (1,1,w0.s0), (1,1,w1.s1), (2,2,w0.s0), (3,1,w1.s2), (3,3,w0.s0) 1,2
44	Yidin	(0,1,w1.s2), (0,3,w0.s2), (0,6,w0.s1), (0,7,w0.s0), (1,2,w0.s0), (1,2,w1.s0), (2,1,w0.s1), (2,1,w1.s1), (3,4,w0.s0), (4,5,w0.s1), (5,4,w0.s0), (6,7,w0.s0), (7,1,w1.s2), (7,6,w0.s1) 1,2,4,5
45	Kashmiri	(0,1,w2.s2), (0,2,w1.s2), (0,4,w1.s0), (0,6,w0.s2), (0,7,w0.s0), (1,1,w0.s0), (1,1,w1.s0), (1,1,w2.s0), (2,2,w0.s0), (2,2,w1.s0), (2,3,w2.s0), (4,4,w0.s0), (4,4,w1.s0), (4,5,w2.s2), (5,1,w0.s0), (5,1,w1.s0), (5,1,w2.s0), (6,3,w1.s0), (6,3,w2.s0), (6,6,w0.s0), (7,4,w1.s0), (7,5,w2.s2), (7,7,w0.s0), (7,8,w1.s2), (8,2,w0.s0), (8,2,w1.s0), (8,3,w2.s0) 1,2,3,6
46	Maori	(0,1,w2.s2), (0,2,w1.s2), (0,3,w1.s0), (0,4,w0.s2), (0,5,w0.s0), (1,1,w0.s0), (1,1,w1.s0), (1,1,w2.s0), (2,2,w0.s0), (2,2,w1.s0), (3,1,w2.s2), (3,3,w0.s0), (3,3,w1.s0), (4,4,w0.s0), (5,1,w2.s2), (5,2,w1.s2), (5,3,w1.s0), (5,5,w0.s0) 1,2,4
47	Mongolian Khalkha (per Stuart)	(0,1,w1.s2), (0,2,w0.s2), (0,3,w0.s0), (1,1,w0.s0), (1,1,w1.s0), (3,1,w1.s2), (3,4,w0.s2), (3,5,w0.s0), (4,4,w0.s0), (5,1,w1.s2), (5,5,w0.s0) 1,2,4
48	Komi	(0,0,w0.s0), (0,1,w1.s2), (0,2,w0.s2), (1,1,w0.s0), (1,1,w1.s0) 1,2
49	Kuuku-Yau	(0,1,w0.s2), (0,1,w1.s2), (0,2,w0.s1), (0,2,w1.s1), (1,1,w0.s0), (2,1,w1.s2), (2,2,w0.s0), (2,2,w1.s1) 1
50	Nubian Dongolese	(0,1,w0.s2), (0,1,w1.s2), (0,3,w0.s0), (0,3,w1.s1), (1,1,w0.s0), (1,2,w1.s1), (3,3,w0.s0), (3,3,w1.s1), (3,4,w1.s2), (4,1,w0.s0), (4,2,w1.s1) 1,2
51	Mongolian Khalkha (per Bosson)	(0,1,w1.s2), (0,3,w1.s1), (0,5,w0.s2), (0,6,w0.s0), (1,1,w0.s0), (1,2,w1.s1), (3,3,w0.s0), (3,3,w1.s1), (3,4,w1.s2), (4,1,w0.s0), (4,2,w1.s1), (5,5,w0.s0), (6,1,w1.s2), (6,3,w1.s1), (6,6,w0.s0) 1,2,5
52	Buriat	(0,1,w1.s2), (0,3,w1.s1), (0,5,w0.s2), (0,6,w0.s1), (1,1,w0.s0), (1,2,w1.s1), (3,3,w0.s0), (3,3,w1.s1), (3,4,w1.s2), (4,1,w0.s0), (4,2,w1.s1), (5,5,w0.s0), (6,1,w1.s2), (6,3,w1.s1), (6,6,w0.s0) 1,2,5
53	Arabic, Classical	(0,1,w0.s2), (0,1,w1.s2), (0,1,w2.s2), (0,3,w0.s0), (0,3,w1.s0), (0,3,w2.s0), (1,1,w0.s0), (1,2,w1.s0), (3,1,w2.s2), (3,3,w0.s0), (3,3,w1.s0), (3,3,w2.s0), (3,4,w1.s2), (4,1,w0.s0), (4,2,w1.s0) 1,2
54	Cheremis, Eastern	(0,1,w0.s2), (0,1,w1.s2), (0,3,w0.s0), (0,3,w1.s0), (1,1,w0.s0), (1,2,w1.s0), (3,3,w0.s0), (3,3,w1.s0), (3,4,w1.s2), (4,1,w0.s0), (4,2,w1.s0) 1,2
55	Chuvash	(0,1,w0.s2), (0,1,w1.s2), (0,2,w0.s0), (0,2,w1.s0), (1,1,w0.s0), (2,1,w1.s2), (2,2,w0.s0), (2,2,w1.s0) 1

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#	Name	Acceptor
56	Golin	(0,0,w0.s0), (0,1,w1.s2), (0,2,w1.s0), (0,3,w0.s2), (1,1,w0.s0), (2,1,w1.s2), (2,2,w0.s0), (2,2,w1.s0) 1,3
57	Cheremis, Meadow	(0,0,w0.s0), (0,1,w1.s2), (0,1,w2.s2), (0,2,w1.s0), (0,2,w2.s0), (0,4,w0.s2), (1,1,w0.s0), (1,4,w1.s0), (2,1,w2.s2), (2,2,w0.s0), (2,2,w1.s0), (2,2,w2.s0), (2,3,w1.s2), (3,1,w0.s0), (3,4,w1.s0) 1,4
58	Mam	(0,0,w0.s0), (0,0,w1.s0), (0,1,w2.s2), (0,2,w2.s0), (0,3,w1.s2), (0,5,w0.s2), (1,1,w0.s0), (1,1,w1.s0), (2,1,w2.s2), (2,2,w0.s0), (2,2,w1.s0), (2,2,w2.s0), (3,4,w0.s0), (5,4,w0.s0) 1,3,4
59	Klamath	(0,1,w2.s2), (0,13,w0.s2), (0,13,w1.s2), (0,15,w0.s0), (0,15,w1.s0), (0,7,w2.s0), (1,2,w1.s1), (1,4,w1.s0), (1,6,w0.s0), (10,3,w2.s2), (11,12,w0.s0), (11,12,w1.s0), (11,7,w2.s0), (11,9,w2.s2), (12,1,w2.s2), (12,12,w0.s0), (12,12,w1.s0), (12,7,w2.s0), (13,14,w0.s0), (13,3,w1.s0), (14,3,w0.s0), (14,3,w1.s0), (15,1,w2.s2), (15,15,w0.s0), (15,15,w1.s0), (15,16,w1.s2), (15,17,w0.s2), (15,7,w2.s0), (16,14,w0.s0), (16,3,w1.s0), (17,2,w0.s0), (2,3,w0.s0), (2,3,w1.s0), (4,5,w0.s0), (4,5,w1.s0), (5,6,w0.s0), (5,6,w1.s0), (6,6,w0.s0), (6,6,w1.s0), (7,1,w2.s2), (7,10,w1.s1), (7,10,w2.s1), (7,11,w1.s0), (7,12,w0.s0), (7,8,w2.s0), (8,10,w1.s1), (8,10,w2.s1), (8,11,w1.s0), (8,12,w0.s0), (8,8,w2.s0), (8,9,w2.s2), (9,2,w1.s1), (9,4,w1.s0), (9,6,w0.s0) 1,13,14,3,4,6
60	Seneca	(0,1,w0.s0), (0,1,w1.s0), (1,2,w1.s2), (1,3,w1.s0), (1,4,w0.s2), (1,5,w0.s1), (1,5,w1.s1), (1,7,w0.s0), (2,7,w0.s0), (2,7,w1.s0), (4,2,w1.s0), (5,6,w0.s0), (5,6,w1.s0), (6,2,w1.s2), (6,4,w0.s2), (6,5,w0.s1), (6,5,w1.s1), (7,3,w1.s0), (7,7,w0.s0) 1,3,7
61	Cheremis, Mountain	(0,1,w1.s2), (0,3,w1.s0), (0,5,w0.s2), (0,6,w0.s0), (1,1,w0.s0), (1,2,w1.s0), (3,3,w0.s0), (3,3,w1.s0), (3,4,w1.s2), (4,1,w0.s0), (4,2,w1.s0), (5,2,w0.s0), (5,2,w1.s0), (6,3,w1.s0), (6,4,w1.s2), (6,6,w0.s0), (6,7,w0.s2), (7,2,w0.s0), (7,2,w1.s0) 1,2,5
62	Hindi (per Jones)	(0,1,w1.s2), (0,3,w1.s0), (0,5,w0.s2), (0,6,w0.s0), (1,1,w0.s0), (1,2,w1.s0), (3,3,w0.s0), (3,3,w1.s0), (3,4,w1.s2), (4,1,w0.s0), (4,2,w1.s0), (5,2,w0.s0), (6,1,w1.s2), (6,3,w1.s0), (6,6,w0.s0), (6,7,w0.s2), (7,2,w0.s0) 1,2,5
63	Sindhi	(0,1,w1.s2), (0,3,w1.s1), (0,5,w0.s2), (0,6,w0.s0), (1,1,w0.s0), (1,2,w1.s1), (3,3,w0.s0), (3,3,w1.s1), (3,4,w1.s2), (4,1,w0.s0), (4,2,w1.s1), (5,2,w0.s0), (6,1,w1.s2), (6,3,w1.s1), (6,6,w0.s0), (6,7,w0.s2), (7,2,w0.s0) 1,2,5
64	Bhojpuri (per Shukla Tiwari)	(0,1,w1.s2), (0,10,w0.s1), (0,6,w1.s1), (0,9,w0.s2), (1,2,w1.s1), (1,3,w0.s1), (1,5,w0.s0), (10,1,w1.s2), (10,10,w0.s0), (10,11,w0.s2), (10,6,w1.s0), (10,8,w1.s1), (11,2,w0.s1), (3,4,w0.s0), (4,2,w1.s0), (4,4,w0.s0), (5,2,w1.s0), (6,6,w0.s0), (6,6,w1.s0), (6,7,w1.s2), (6,8,w1.s1), (7,2,w1.s1), (7,3,w0.s1), (7,5,w0.s0), (8,7,w1.s2), (9,2,w0.s1) 1,2,3,4,9

Continued on next page

#	Name	Acceptor
65	Hindi (per Kelkar)	(0,1,w2.s2), (0,15,w1.s2), (0,21,w1.s1), (0,28,w0.s2), (0,29,w0.s1), (0,30,w0.s0), (0,8,w2.s1), (1,1,w1.s1), (1,2,w2.s1), (1,3,w0.s0), (10,11,w0.s1), (10,14,w0.s0), (10,8,w1.s1), (10,8,w2.s1), (10,9,w2.s2), (11,10,w0.s0), (11,12,w0.s1), (12,13,w0.s0), (13,12,w0.s1), (13,8,w1.s1), (13,8,w2.s1), (13,9,w2.s2), (14,8,w1.s1), (14,8,w2.s1), (14,9,w2.s2), (15,16,w0.s0), (15,2,w1.s1), (16,17,w0.s1), (16,2,w1.s1), (16,20,w0.s0), (17,16,w0.s0), (17,18,w0.s1), (18,19,w0.s0), (19,18,w0.s1), (19,2,w1.s1), (20,2,w1.s1), (21,1,w2.s2), (21,21,w1.s1), (21,22,w1.s2), (21,23,w0.s0), (21,8,w2.s1), (22,16,w0.s0), (22,2,w1.s1), (23,1,w2.s2), (23,21,w1.s1), (23,22,w1.s2), (23,24,w0.s1), (23,27,w0.s0), (23,8,w2.s1), (24,23,w0.s0), (24,25,w0.s1), (25,26,w0.s0), (26,1,w2.s2), (26,21,w1.s1), (26,22,w1.s2), (26,25,w0.s1), (26,8,w2.s1), (27,1,w2.s2), (27,21,w1.s1), (27,22,w1.s2), (27,8,w2.s1), (28,2,w0.s0), (29,30,w0.s0), (3,1,w1.s1), (3,2,w2.s1), (3,4,w0.s1), (3,7,w0.s0), (30,1,w2.s2), (30,15,w1.s2), (30,21,w1.s1), (30,29,w0.s1), (30,31,w0.s2), (30,8,w2.s1), (31,2,w0.s0), (4,3,w0.s0), (4,5,w0.s1), (5,6,w0.s0), (6,1,w1.s1), (6,2,w2.s1), (6,5,w0.s1), (7,1,w1.s1), (7,2,w2.s1), (8,10,w0.s0), (8,8,w1.s1), (8,8,w2.s1), (8,9,w2.s2), (9,1,w1.s1), (9,2,w2.s1), (9,3,w0.s0) 1,15,16,17,2,28,3,4
66	Maidu	(0,1,w1.s2), (0,2,w0.s2), (0,3,w0.s0), (1,1,w0.s0), (1,1,w1.s0), (3,1,w0.s2), (3,1,w1.s2) 1,2
67	Hopi	(0,1,w1.s2), (0,2,w0.s0), (1,1,w0.s0), (1,1,w1.s0), (2,1,w0.s2), (2,1,w1.s2) 1
68	English verbs	(0,1,w0.s2), (0,1,w1.s2), (0,3,w0.s0), (0,3,w1.s0), (1,2,w0.s0), (3,1,w1.s2), (3,3,w0.s0), (3,3,w1.s0), (3,4,w0.s2), (4,2,w0.s0) 1,2
69	Kawaiisu	(0,0,w0.s0), (0,0,w1.s0), (0,1,w1.s2), (0,3,w0.s2), (1,2,w0.s0), (3,2,w0.s0) 1,2
70	Shoshone Tümpisa	(0,1,w0.s2), (0,1,w1.s2), (0,3,w0.s0), (0,3,w1.s0), (1,2,w0.s0), (2,2,w0.s0), (2,2,w1.s0), (3,2,w1.s2) 1,2
71	Javanese	(0,0,w0.s0), (0,1,w1.s2), (0,2,w1.s0), (0,4,w0.s2), (1,4,w0.s0), (1,4,w1.s0), (2,0,w0.s0), (2,2,w1.s0), (2,3,w1.s2), (3,4,w0.s0), (3,4,w1.s0) 1,4
72	Manobo Sarangani (per Meiklejohn & Meiklejohn)	(0,1,w1.s2), (0,3,w1.s0), (0,5,w0.s0), (1,2,w0.s0), (1,2,w1.s0), (3,3,w1.s0), (3,4,w1.s2), (3,5,w0.s0), (4,2,w0.s0), (4,2,w1.s0), (5,1,w1.s2), (5,2,w0.s2), (5,3,w1.s0), (5,5,w0.s0) 1,2
73	Awadhi	(0,0,w0.s0), (0,1,w1.s2), (0,3,w1.s0), (0,5,w0.s2), (1,2,w0.s0), (1,2,w1.s0), (3,0,w0.s0), (3,3,w1.s0), (3,4,w1.s2), (3,5,w0.s2), (4,2,w0.s0), (4,2,w1.s0), (5,2,w0.s0) 1,2
74	Malay (per Lewis)	(0,1,w1.s2), (0,4,w1.s0), (0,8,w0.s2), (0,9,w0.s0), (1,2,w1.s0), (1,3,w0.s0), (10,3,w0.s0), (3,2,w0.s0), (3,2,w1.s0), (4,4,w0.s0), (4,4,w1.s0), (4,5,w1.s2), (4,6,w0.s2), (5,3,w0.s0), (6,7,w0.s0), (7,2,w0.s0), (7,2,w1.s0), (8,7,w0.s0), (9,10,w1.s2), (9,4,w0.s0), (9,4,w1.s0), (9,8,w0.s2) 1,10,2,3,8
75	Latin, Classical	(0,1,w1.s2), (0,4,w0.s2), (0,5,w0.s0), (0,5,w1.s0), (1,2,w1.s0), (1,3,w0.s0), (3,2,w0.s0), (3,2,w1.s0), (4,2,w1.s0), (4,3,w0.s0), (5,5,w0.s0), (5,5,w1.s0), (5,6,w1.s2), (5,7,w0.s2), (6,3,w0.s0), (7,8,w0.s0), (8,2,w0.s0), (8,2,w1.s0) 1,2,3

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#	Name	Acceptor
76	Hebrew, Tiberian	(0,0,w0.s0), (0,1,w1.s2), (0,1,w2.s2), (0,2,w1.s0), (0,2,w2.s0), (0,4,w0.s2), (1,4,w0.s0), (1,4,w1.s0), (2,0,w0.s0), (2,1,w2.s2), (2,2,w1.s0), (2,2,w2.s0), (2,3,w1.s2), (3,4,w0.s0), (3,4,w1.s0) 1,4
77	English nouns (per Pater)	(0,1,w1.s2), (0,1,w2.s2), (0,4,w1.s1), (0,4,w2.s1), (0,7,w0.s2), (0,8,w0.s1), (0,9,w0.s0), (1,2,w1.s1), (1,3,w0.s0), (3,2,w1.s1), (4,1,w2.s2), (4,4,w1.s1), (4,4,w2.s1), (4,5,w1.s2), (4,6,w0.s2), (4,8,w0.s1), (4,9,w0.s0), (5,2,w1.s1), (5,3,w0.s0), (6,3,w0.s0), (7,3,w0.s0), (8,9,w0.s0), (9,1,w2.s2), (9,4,w1.s1), (9,4,w2.s1), (9,5,w1.s2), (9,6,w0.s2), (9,8,w0.s1) 1,2,3,7
78	Arabic, Cairene	(0,1,w1.s2), (0,1,w2.s2), (0,4,w0.s2), (0,5,w0.s0), (0,5,w1.s0), (0,5,w2.s0), (1,2,w1.s0), (1,3,w0.s0), (3,2,w0.s0), (3,2,w1.s0), (4,2,w1.s0), (4,3,w0.s0), (5,1,w2.s2), (5,4,w0.s2), (5,4,w1.s2), (5,5,w0.s0), (5,5,w1.s0), (5,5,w2.s0) 1,2,3
79	Arabic, Damascene	(0,1,w0.s2), (0,1,w1.s2), (0,1,w2.s2), (0,4,w0.s0), (0,4,w1.s0), (0,4,w2.s0), (1,2,w1.s0), (1,3,w0.s0), (3,2,w0.s0), (3,2,w1.s0), (4,1,w2.s2), (4,4,w0.s0), (4,4,w1.s0), (4,4,w2.s0), (4,5,w1.s2), (4,6,w0.s2), (5,2,w1.s0), (5,3,w0.s0), (6,7,w0.s0), (7,2,w0.s0), (7,2,w1.s0) 1,2,3
80	Arabic, Cyrenaican Bedouin	(0,1,w1.s2), (0,1,w2.s2), (0,4,w1.s0), (0,4,w2.s0), (0,9,w0.s0), (1,2,w0.s0), (2,3,w0.s0), (2,3,w1.s0), (4,5,w1.s2), (4,5,w2.s2), (4,6,w1.s0), (4,6,w2.s0), (4,8,w0.s0), (5,2,w0.s0), (5,3,w1.s0), (6,5,w2.s2), (6,6,w1.s0), (6,6,w2.s0), (6,7,w1.s2), (6,8,w0.s0), (7,2,w0.s0), (7,3,w1.s0), (8,5,w2.s2), (8,6,w0.s0), (8,6,w1.s0), (8,6,w2.s0), (8,7,w0.s2), (8,7,w1.s2), (9,5,w0.s2), (9,5,w1.s2), (9,5,w2.s2), (9,6,w0.s0), (9,6,w1.s0), (9,6,w2.s0) 1,2,3,5
81	Hindi (per Fairbanks)	(0,1,w1.s2), (0,1,w2.s2), (0,4,w0.s2), (0,7,w0.s0), (0,7,w1.s0), (0,7,w2.s0), (1,2,w1.s0), (1,2,w2.s0), (1,3,w0.s0), (10,2,w1.s0), (10,6,w0.s0), (11,11,w0.s0), (11,11,w1.s0), (11,11,w2.s0), (11,12,w2.s2), (11,8,w1.s2), (11,9,w0.s2), (12,2,w1.s0), (12,3,w0.s0), (3,2,w0.s0), (3,2,w1.s0), (4,2,w1.s0), (4,2,w2.s0), (4,5,w0.s0), (5,2,w1.s0), (5,6,w0.s0), (6,2,w0.s0), (7,11,w0.s0), (7,11,w1.s0), (7,11,w2.s0), (7,8,w1.s2), (7,8,w2.s2), (7,9,w0.s2), (8,2,w1.s0), (8,3,w0.s0), (9,10,w0.s0) 1,12,2,3,4,5

Continued on next page

#	Name	Acceptor
82	Pirahã	(0,0,w0.s0), (0,1,w4.s2), (0,26,w3.s2), (0,27,w3.s0), (0,28,w2.s2), (0,29,w2.s0), (0,3,w4.s0), (0,30,w1.s2), (0,31,w1.s0), (0,32,w0.s2), (1,2,w0.s0), (1,2,w1.s0), (1,2,w2.s0), (1,2,w3.s0), (10,11,w0.s0), (10,11,w1.s0), (11,32,w0.s0), (11,32,w1.s0), (12,1,w4.s2), (12,13,w1.s2), (12,15,w0.s0), (12,26,w3.s2), (12,27,w3.s0), (12,28,w2.s2), (12,29,w2.s0), (12,3,w4.s0), (12,31,w1.s0), (13,14,w0.s0), (14,32,w0.s0), (15,0,w0.s0), (15,1,w4.s2), (15,26,w3.s2), (15,27,w3.s0), (15,28,w2.s2), (15,29,w2.s0), (15,3,w4.s0), (15,30,w1.s2), (15,31,w1.s0), (16,0,w0.s0), (16,1,w4.s2), (16,13,w1.s2), (16,26,w3.s2), (16,27,w3.s0), (16,28,w2.s2), (16,29,w2.s0), (16,3,w4.s0), (16,31,w1.s0), (17,1,w4.s2), (17,10,w2.s2), (17,13,w1.s2), (17,15,w0.s0), (17,26,w3.s2), (17,27,w3.s0), (17,29,w2.s0), (17,3,w4.s0), (17,31,w1.s0), (18,0,w0.s0), (18,1,w4.s2), (18,10,w2.s2), (18,13,w1.s2), (18,26,w3.s2), (18,27,w3.s0), (18,29,w2.s0), (18,3,w4.s0), (18,31,w1.s0), (19,20,w0.s0), (19,20,w1.s0), (2,32,w0.s0), (2,32,w1.s0), (2,32,w2.s0), (2,32,w3.s0), (20,32,w0.s0), (20,32,w1.s0), (21,1,w4.s2), (21,10,w2.s2), (21,12,w1.s0), (21,16,w0.s0), (21,22,w1.s2), (21,27,w3.s0), (21,29,w2.s0), (21,3,w4.s0), (21,7,w3.s2), (22,23,w0.s0), (23,32,w0.s0), (24,1,w4.s2), (24,10,w2.s2), (24,13,w1.s2), (24,15,w0.s0), (24,27,w3.s0), (24,29,w2.s0), (24,3,w4.s0), (24,31,w1.s0), (24,7,w3.s2), (25,0,w0.s0), (25,1,w4.s2), (25,10,w2.s2), (25,13,w1.s2), (25,27,w3.s0), (25,29,w2.s0), (25,3,w4.s0), (25,31,w1.s0), (25,7,w3.s2), (26,8,w0.s0), (26,8,w1.s0), (26,8,w2.s0), (27,1,w4.s2), (27,17,w1.s0), (27,18,w0.s0), (27,19,w2.s2), (27,22,w1.s2), (27,26,w3.s2), (27,27,w3.s0), (27,3,w4.s0), (27,9,w2.s0), (28,11,w0.s0), (28,11,w1.s0), (29,1,w4.s2), (29,12,w1.s0), (29,16,w0.s0), (29,22,w1.s2), (29,26,w3.s2), (29,27,w3.s0), (29,28,w2.s2), (29,29,w2.s0), (29,3,w4.s0), (3,1,w4.s2), (3,19,w2.s2), (3,21,w2.s0), (3,22,w1.s2), (3,24,w1.s0), (3,25,w0.s0), (3,3,w4.s0), (3,4,w3.s2), (3,6,w3.s0), (30,14,w0.s0), (31,1,w4.s2), (31,15,w0.s0), (31,26,w3.s2), (31,27,w3.s0), (31,28,w2.s2), (31,29,w2.s0), (31,3,w4.s0), (31,30,w1.s2), (31,31,w1.s0), (4,5,w0.s0), (4,5,w1.s0), (4,5,w2.s0), (5,32,w0.s0), (5,32,w1.s0), (5,32,w2.s0), (6,1,w4.s2), (6,17,w1.s0), (6,18,w0.s0), (6,19,w2.s2), (6,22,w1.s2), (6,27,w3.s0), (6,3,w4.s0), (6,7,w3.s2), (6,9,w2.s0), (7,8,w0.s0), (7,8,w1.s0), (7,8,w2.s0), (8,32,w0.s0), (8,32,w1.s0), (8,32,w2.s0), (9,1,w4.s2), (9,10,w2.s2), (9,12,w1.s0), (9,16,w0.s0), (9,22,w1.s2), (9,26,w3.s2), (9,27,w3.s0), (9,29,w2.s0), (9,3,w4.s0) 1,11,14,2,26,28,30,32,8
83	Maithili	(0,1,w1.s1), (0,5,w0.s1), (1,1,w1.s0), (1,2,w1.s2), (1,5,w0.s0), (2,3,w1.s0), (2,4,w0.s0), (4,3,w0.s0), (5,1,w1.s0), (5,5,w0.s0), (5,6,w1.s2), (5,7,w0.s2), (6,3,w1.s0), (6,4,w0.s0), (7,3,w0.s0) 3,4,6
84	Cambodian	(0,1,w1.s2), (0,2,w1.s1), (2,0,w0.s0), (2,1,w0.s2), (2,1,w1.s2), (2,2,w1.s1) 1
85	Yapese	(0,0,w0.s0), (0,1,w1.s2), (0,2,w1.s1), (0,3,w0.s2), (1,3,w0.s0), (2,0,w0.s0), (2,1,w1.s2), (2,2,w1.s1) 1,3
86	Tongan	(0,0,w0.s0), (0,0,w1.s1), (0,1,w1.s2), (0,3,w0.s2), (1,2,w0.s0), (3,2,w0.s0) 1,2

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#	Name	Acceptor
87	Miwok, Sierra	(0,1,w1.s2), (0,2,w0.s0), (1,1,w0.s0), (1,1,w1.s1), (2,1,w0.s2), (2,1,w1.s2) 1
88	Gurkhali	(0,1,w1.s2), (0,2,w0.s2), (0,3,w0.s0), (1,1,w0.s0), (1,1,w1.s1), (2,1,w0.s0), (3,1,w1.s2) 1,2
89	Aranda, Western	(0,1,w1.s2), (0,5,w0.s2), (0,6,w0.s0), (1,2,w0.s0), (1,2,w1.s0), (2,3,w0.s1), (2,3,w1.s1), (2,4,w0.s0), (2,4,w1.s0), (3,2,w0.s0), (3,2,w1.s0), (5,4,w0.s0), (5,4,w1.s0), (6,3,w0.s2), (6,3,w1.s2) 1,2,4,5
90	Nyawaygi	(0,1,w1.s2), (0,4,w0.s2), (0,5,w0.s0), (1,1,w1.s1), (1,2,w0.s1), (1,3,w0.s0), (2,3,w0.s0), (3,1,w1.s1), (3,2,w0.s1), (4,3,w0.s0), (5,1,w1.s2), (5,2,w0.s2) 1,3,4
91	Wargamay	(0,1,w1.s2), (0,4,w0.s2), (0,5,w0.s0), (1,2,w0.s0), (2,3,w0.s0), (2,4,w0.s1), (3,4,w0.s1), (4,3,w0.s0), (5,4,w0.s2) 1,2,3
92	Romansh, Bergüner	(0,1,w1.s1), (0,4,w0.s2), (0,4,w1.s2), (0,5,w0.s1), (0,6,w0.s0), (1,1,w1.s1), (1,2,w0.s2), (1,4,w1.s2), (1,5,w0.s1), (1,6,w0.s0), (2,3,w0.s0), (4,3,w0.s0), (5,1,w0.s0), (5,2,w0.s2), (6,1,w1.s1), (6,4,w1.s2) 3,4
93	Greek, Ancient	(0,1,w1.s1), (0,4,w0.s2), (0,4,w1.s2), (0,5,w0.s1), (0,6,w0.s0), (1,1,w1.s1), (1,2,w0.s2), (1,4,w1.s2), (1,5,w0.s1), (1,6,w0.s0), (2,3,w0.s0), (4,3,w0.s0), (5,6,w0.s0), (6,1,w1.s1), (6,2,w0.s2), (6,4,w1.s2), (6,5,w0.s1) 3,4
94	Fijian	(0,0,w1.s1), (0,1,w1.s2), (0,3,w0.s2), (0,4,w0.s1), (0,5,w0.s0), (1,2,w0.s0), (3,2,w0.s0), (4,5,w0.s0), (5,0,w1.s1), (5,1,w1.s2), (5,3,w0.s2), (5,4,w0.s1) 1,2
95	Romanian	(0,1,w0.s2), (0,1,w1.s2), (0,3,w0.s1), (0,3,w1.s1), (0,4,w0.s0), (0,4,w1.s0), (1,2,w0.s0), (3,4,w0.s0), (3,4,w1.s0), (4,1,w1.s2), (4,3,w0.s1), (4,3,w1.s1), (4,5,w0.s2), (5,2,w0.s0) 1,2
96	Seminole/Creek	(0,0,w1.s1), (0,1,w1.s2), (0,3,w0.s0), (1,2,w0.s0), (3,0,w0.s1), (3,0,w1.s1), (3,1,w0.s2), (3,1,w1.s2) 1,2
97	Akalan	(0,1,w1.s2), (0,2,w1.s1), (0,4,w0.s2), (0,5,w0.s1), (0,6,w0.s0), (1,4,w0.s0), (1,4,w1.s0), (2,2,w1.s1), (2,3,w1.s2), (2,6,w0.s0), (3,4,w0.s0), (3,4,w1.s0), (5,6,w0.s0), (6,1,w1.s2), (6,2,w1.s1), (6,4,w0.s2), (6,5,w0.s1) 1,4
98	Malecite/ samaquoddy	Pas- (0,1,w1.s2), (0,4,w1.s1), (0,6,w0.s0), (1,2,w1.s1), (1,3,w0.s0), (3,2,w0.s1), (3,2,w1.s1), (4,4,w1.s1), (4,5,w1.s2), (4,6,w0.s0), (5,2,w1.s1), (5,3,w0.s0), (6,4,w0.s1), (6,4,w1.s1), (6,5,w0.s2), (6,5,w1.s2) 1,2,3
99	Munsee	(0,1,w1.s2), (0,3,w1.s1), (0,7,w0.s2), (0,8,w0.s0), (1,2,w0.s0), (1,7,w1.s0), (2,7,w0.s0), (2,7,w1.s0), (3,3,w1.s1), (3,4,w1.s2), (3,5,w0.s0), (4,2,w0.s0), (5,3,w0.s1), (5,3,w1.s1), (5,4,w1.s2), (5,6,w0.s2), (6,2,w0.s0), (6,7,w1.s0), (8,1,w0.s2), (8,3,w0.s1), (8,3,w1.s1), (8,9,w1.s2), (9,2,w0.s0) 1,2,7,9
100	Cayuga	(0,1,w1.s2), (0,4,w1.s1), (0,8,w0.s0), (1,2,w1.s0), (1,3,w0.s0), (3,2,w0.s0), (3,2,w1.s0), (4,4,w1.s1), (4,5,w1.s2), (4,6,w0.s0), (5,3,w0.s0), (6,4,w0.s1), (6,4,w1.s1), (6,5,w1.s2), (6,7,w0.s2), (7,2,w1.s0), (7,3,w0.s0), (8,2,w0.s0), (8,2,w1.s0), (8,4,w0.s1), (8,4,w1.s1), (8,5,w1.s2), (8,7,w0.s2) 1,2,3

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#	Name	Acceptor
101	Manam	(0,1,w2.s2), (0,10,w0.s1), (0,11,w0.s0), (0,4,w2.s1), (0,7,w1.s1), (0,9,w0.s2), (0,9,w1.s2), (1,2,w0.s0), (1,2,w1.s0), (10,11,w0.s0), (11,1,w2.s2), (11,10,w0.s1), (11,4,w2.s1), (11,5,w0.s2), (11,7,w1.s1), (11,8,w1.s2), (2,3,w0.s0), (2,3,w1.s0), (4,1,w2.s2), (4,11,w0.s0), (4,4,w2.s1), (4,5,w0.s2), (4,5,w1.s2), (4,7,w1.s1), (5,6,w0.s0), (6,3,w0.s0), (6,3,w1.s0), (7,1,w2.s2), (7,11,w0.s0), (7,4,w2.s1), (7,5,w0.s2), (7,7,w1.s1), (7,8,w1.s2), (8,2,w0.s0), (8,3,w1.s0), (9,2,w0.s0), (9,3,w1.s0) 1,2,3,9
102	Arabic, Negev Bedouin	(0,1,w1.s2), (0,1,w2.s2), (0,3,w1.s0), (0,3,w2.s0), (0,8,w0.s2), (0,9,w0.s0), (1,2,w0.s0), (2,8,w0.s0), (2,8,w1.s0), (3,4,w1.s2), (3,4,w2.s2), (3,5,w1.s0), (3,5,w2.s0), (3,7,w0.s0), (4,2,w0.s0), (4,8,w1.s0), (5,4,w2.s2), (5,5,w1.s0), (5,5,w2.s0), (5,6,w1.s2), (5,7,w0.s0), (6,2,w0.s0), (6,8,w1.s0), (7,4,w2.s2), (7,5,w0.s0), (7,5,w1.s0), (7,5,w2.s0), (7,6,w0.s2), (7,6,w1.s2), (9,4,w0.s2), (9,4,w1.s2), (9,4,w2.s2), (9,5,w0.s0), (9,5,w1.s0), (9,5,w2.s0) 1,2,4,8
103	Arabic, Bani-Hassan	(0,1,w1.s2), (0,1,w2.s2), (0,3,w1.s1), (0,3,w2.s1), (0,5,w0.s2), (0,6,w0.s1), (0,7,w0.s0), (1,2,w1.s0), (1,5,w0.s0), (3,1,w2.s2), (3,3,w1.s1), (3,3,w2.s1), (3,4,w1.s2), (3,7,w0.s0), (4,2,w1.s0), (4,5,w0.s0), (5,2,w0.s0), (5,2,w1.s0), (6,7,w0.s0), (7,1,w2.s2), (7,3,w1.s1), (7,3,w2.s1), (7,4,w1.s2), (7,6,w0.s1), (7,8,w0.s2), (8,2,w0.s0), (8,2,w1.s0) 1,2,5
104	Arabic, Palestinian	(0,1,w1.s2), (0,1,w2.s2), (0,4,w1.s1), (0,4,w2.s1), (0,7,w0.s2), (0,8,w0.s1), (0,9,w0.s0), (1,2,w1.s0), (1,3,w0.s0), (3,2,w0.s0), (3,2,w1.s0), (4,1,w2.s2), (4,4,w1.s1), (4,4,w2.s1), (4,5,w1.s2), (4,6,w0.s2), (4,8,w0.s1), (4,9,w0.s0), (5,2,w1.s0), (5,3,w0.s0), (6,5,w0.s0), (7,1,w0.s0), (7,2,w1.s0), (8,4,w0.s0), (9,1,w2.s2), (9,4,w1.s1), (9,4,w2.s1), (9,5,w1.s2) 1,2,3
105	Ashéninca	(0,1,w2.s2), (0,19,w0.s0), (0,19,w1.s0), (0,5,w2.s1), (1,2,w2.s0), (1,3,w0.s0), (1,3,w1.s0), (10,2,w1.s0), (10,2,w2.s0), (10,4,w0.s0), (11,12,w1.s2), (11,13,w0.s0), (11,5,w2.s1), (11,6,w2.s2), (11,7,w1.s0), (12,9,w0.s0), (12,9,w1.s0), (13,11,w1.s1), (13,14,w1.s2), (13,16,w0.s2), (13,17,w0.s1), (13,5,w2.s1), (13,6,w2.s2), (14,15,w0.s0), (14,2,w2.s0), (14,4,w1.s0), (15,2,w1.s0), (15,2,w2.s0), (15,4,w0.s0), (16,9,w0.s0), (17,18,w1.s2), (17,19,w0.s0), (17,5,w2.s1), (17,6,w2.s2), (17,7,w1.s0), (18,2,w2.s0), (18,4,w0.s0), (18,4,w1.s0), (19,10,w0.s2), (19,11,w1.s1), (19,14,w1.s2), (19,17,w0.s1), (19,5,w2.s1), (19,6,w2.s2), (3,2,w2.s0), (3,4,w0.s0), (3,4,w1.s0), (4,2,w0.s0), (4,2,w1.s0), (4,2,w2.s0), (5,5,w2.s1), (5,6,w2.s2), (5,7,w0.s0), (5,7,w1.s0), (6,2,w2.s0), (6,3,w0.s0), (6,3,w1.s0), (7,11,w1.s1), (7,16,w0.s2), (7,17,w0.s1), (7,5,w2.s1), (7,6,w2.s2), (7,8,w1.s2), (8,10,w0.s0), (8,9,w1.s0), (9,2,w0.s0), (9,2,w1.s0), (9,2,w2.s0) 1,15,2,3,4

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#	Name	Acceptor
106	Dutch	(0,1,w1.s2), (0,1,w2.s2), (0,1,w3.s2), (0,4,w1.s1), (0,4,w2.s1), (0,4,w3.s1), (0,7,w0.s2), (0,8,w0.s1), (0,9,w0.s0), (1,2,w1.s1), (1,2,w2.s1), (1,3,w0.s0), (3,2,w1.s1), (3,2,w2.s1), (4,1,w3.s2), (4,4,w1.s1), (4,4,w2.s1), (4,4,w3.s1), (4,5,w1.s2), (4,5,w2.s2), (4,6,w0.s2), (4,8,w0.s1), (4,9,w0.s0), (5,2,w1.s1), (5,2,w2.s1), (5,3,w0.s0), (6,3,w0.s0), (7,3,w0.s0), (8,9,w0.s0), (9,1,w3.s2), (9,4,w1.s1), (9,4,w2.s1), (9,4,w3.s1), (9,5,w1.s2), (9,5,w2.s2), (9,6,w0.s2), (9,8,w0.s1) 1,2,3,7
107	Estonian	(0,1,w0.s2), (0,1,w1.s2), (1,2,w0.s0), (1,2,w1.s0), (2,1,w1.s1), (2,3,w0.s1), (2,4,w0.s0), (3,2,w0.s0), (3,2,w1.s0), (4,1,w1.s1), (4,3,w0.s1) 1,2,4
108	Hungarian	(0,1,w0.s2), (0,1,w1.s2), (1,2,w0.s0), (1,2,w1.s0), (2,3,w1.s0), (2,4,w0.s1), (2,4,w1.s1), (2,5,w0.s0), (4,2,w0.s0), (4,2,w1.s0), (5,3,w1.s0), (5,4,w0.s1), (5,4,w1.s1) 1,2,3,5
109	Sentani	(0,1,w1.s1), (0,5,w1.s0), (0,6,w0.s2), (0,6,w1.s2), (0,7,w0.s1), (0,9,w0.s0), (1,2,w0.s0), (1,5,w1.s0), (2,3,w0.s2), (2,5,w0.s0), (2,5,w1.s0), (2,6,w1.s2), (3,4,w0.s0), (5,1,w1.s1), (5,3,w0.s2), (5,6,w1.s2), (5,7,w0.s1), (6,4,w0.s0), (7,8,w0.s0), (8,5,w0.s0), (9,1,w1.s1), (9,3,w0.s2), (9,5,w0.s0), (9,5,w1.s0), (9,6,w1.s2), (9,7,w0.s1) 4,6