

Johann Sebastian Bach RICERCAR Musikalisches Opfer 1 INTONATION

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Flowing but sufficiently slowly to hear the precise intonation

ca. 56

Oboe Violin
mezza voce
Vla. sola, a piacere
III

Basset-Clarinet Viola
sotto voce
Vlc. solo, a piacere
III IV II

Bassoon Violoncello
sotto voce
III IV II

Ob Vln
+12 +10 +12 +14 +2 +16 +10 +16 +12

Cl Vla
mezza voce
+12 +10 +12 +16 +12 +16 +12

Bsn Vlc
sotto voce
II

Ob Vln
+12 +2 +16 +2 +14 +10 +12 +10

Cl Vla
+12 +16 +14 +10 +10 +14 +10 +10

Bsn Vlc
Vlc. + Bsn.
+10
mezza voce

Intonation adjustments (cents):
Oboe Violin: -6, +10, +8, -4, -18, -4, -16, -35, -20, -8, -2, -1, -6, -18, -4, -6, -8, -8, -2, -6, -16
Cl Vla: -4, -6, -16, -2, -14, -33, -18, -19, -4, -16, -2, -4
Ob Vln: -2, -4, -4, -6, -4, -2, -16, -4, -2, +14, +10, +16, -2, -6, -2, -4, -16
Cl Vla: -4, -6, -16, -2, -14, -33, -18, -19, -4, -16, -2, -4
Ob Vln: -4, -2, -19, -2, -6, -2, -2, -6, -18, -22, -4, -22, -18, -6, -2, -4, -6, -8
Cl Vla: -4, -19, -4, -2, -4, -19, -4, -2, -6, -2, -8, -2, -4, -6, -8
Bsn Vlc: -6, -4

25

Ob Vln: +10, +14, +12, +12, +8, +8

Cl Vla: +10, +12, +12, +8, +14, +8, +10

Bsn Vlc: -18, -4, -16, -8, -20, -2, -6, -18, -4, -6, -8, -2

31

Ob Vln: +10, +12, +27, +16, +23, +12, +8, +23, +12, +8, +10

Cl Vla: +12, +8, +14, +10, +25, +14, +12, +8, +10, +6, +22, +10, +8, +10

Bsn Vlc: +10, +14, +8, +12, +16, +12, +16, +27, +10, +14, +8, +12, +23, +6, +10, +14, +10, +6, +12, +8

38

Ob Vln: +10, +8, +6

Cl Vla: +10, +8, +8, +10

Bsn Vlc: -4, -18, -6, -20, -8, -22, -10, -24

42

Ob Vln

Cl Vla

Bsn Vlc

48

Ob Vln

Cl Vla

Bsn Vlc

54

Ob Vln

Cl Vla

Bsn Vlc

60

Ob Vln

Cl Vla

Bsn Vlc

Intonation adjustments: +10, -6, -8, -4, -2, -4, -6, -2, -18, -33, -2, -4, -6, +12, +12, -6, -4, -16, -35, -20, +10, -2, -14, -6, +10, -6, -8, -2, -8, -6, -6, -2, -17, -33, -18, -4, -18, -6, -2, -16, +10

Detailed description: This system contains measures 60 through 64. It features three staves: Ob Vln (top), Cl Vla (middle), and Bsn Vlc (bottom). The music is in a key with one flat and a 3/4 time signature. Intonation adjustments are indicated by numbers above or below notes. Measure 60 starts with a tempo marking of 60. The notation includes eighth and sixteenth notes, often beamed together, and some notes are marked with accents.

65

Ob Vln

Cl Vla

Bsn Vlc

Intonation adjustments: -4, -6, +12, -12, -19, -16, -4, -20, -8, -10, -6, +8, -18, -4, -6, -8, +10, -2, +16, -2, -17, +16, +12, -2, -6, -21, +12, +8, -6, -8, -4, +10, -8, -2, -6, -18, -6, -2, -8, -4, +8, +14, +2, +16, +20, +14, +12, +10, -2, +8, +6, -6, -10, +8, +6, -6, -10, +8, +6, -6, -10, +10, -2, +10, -20, -8, -4, +6, +8, -6, -10, +10, -8

Detailed description: This system contains measures 65 through 69. The notation continues with similar rhythmic patterns and intonation adjustments. Measure 65 begins with a tempo marking of 65. The Cl Vla staff shows more complex rhythmic figures in measures 67 and 68. The Bsn Vlc staff has several notes with upward-pointing intonation adjustments.

70

Ob Vln

Cl Vla

Bsn Vlc

Intonation adjustments: +8, +14, +12, +12, +8, -10, -4, -6, -21, -8, -6, -4, -23, -20, -8, -6, -23, -20, -8, +8, +10, +6, -6, -10, +6, +8, -6, -10, +6, +8, -6, -10, +10, -2, +10, -20, -8, -4, +6, +8, -6, -10, +10, -8

Detailed description: This system contains measures 70 through 74. The music continues with the same instrumental forces and intonation adjustments. Measure 70 starts with a tempo marking of 70. The Ob Vln staff has a prominent melodic line with several intonation adjustments. The Cl Vla staff has a more active role with eighth-note patterns.

75

Ob
Vln

Cl
Vla

Bsn
Vlc

-18 -37 -22 -41 -25 -23 -8 -20 -2 -6 -8 -10 +8 +10 -16 -2 -4 -6 +10 +10

-4 -35 -8 -6 -23 -20 -8 -25 -41 -10 -6 -6 -18 -6 -2 -6 -16 -6 -16

-2 -20 -6 -8 -25 -41 -10 -4 -10 -8 -20 -8 -20 -4 -2 -6 -2 -6 -4 -16

81

Ob
Vln

Cl
Vla

Bsn
Vlc

-18 -19 -4 -16 +12 +18 +14 +14 +10 +14 +10 +10 +10

-2 -4 -35 -2 -8 -17 -14 -2 -18 -8 -4 +10 +10 +16 +14 +14 +10

-4 -6 -2 -17 -2 -33 -18 -4 -6 -4 -4 -18 -8 -4 -2 -2 -6 -2 -4 -8 -2

87

Ob
Vln

Cl
Vla

Bsn
Vlc

+10 +8 +6 +4

-6 -8 -3 -12 -12 -10 -12 -7 -16 -16

-6 -4 -1 -10 -10 -8 -10 -5 -14 -14 -12 -25

91

Ob Vln

Cl Vla

Bsn Vlc

Intonation adjustments: +2, -41, -25, -3, -8, -37, -22, +1, -4, +10, -8, -2, +10, -2, -6

Intonation adjustments: -14, -25, -12, -8, -12, -23, -10, -6, +6, -10, -22, -8, -4, -8, -20, -6, -2, +10, -6, -4, 3, 3, -18, -2, -4, -8, -18, -2, -4, -8

Intonation adjustments: -14, -10, -27, -23, -12, -8, -22, -10, -6, -23, -20, -8, -4, +4, +8, +10, +8

Detailed description: This system contains measures 91 through 96. The Ob Vln part is in treble clef with a key signature of two flats. It features a melodic line with various intonation adjustments. The Cl Vla part is in bass clef and provides harmonic support with chords and moving lines. The Bsn Vlc part is in bass clef and plays a more rhythmic, chordal accompaniment. Intonation adjustments are indicated by numbers above or below notes.

97

Ob Vln

Cl Vla

Bsn Vlc

Intonation adjustments: +8, -2, -4, -8, -18, -6, -2, -4, -16, +16, +14, +2, +10, -2, -8, -8, -6, -18, -6, -18, -2, -6, -4

Intonation adjustments: +10, +10, +12, +8, -2, -2, -6, -6, -1, -18, -4, -8, -4, -16, -4

Intonation adjustments: -18, -4, -16, -8, -20, +10, +6, -2, -6, -18, -4, -6, -8, +10, tr

Detailed description: This system contains measures 97 through 102. The Ob Vln part continues its melodic development with more complex phrasing and intonation adjustments. The Cl Vla part maintains its harmonic role with sustained chords and moving lines. The Bsn Vlc part includes a trill (tr) in the final measure. Intonation adjustments are clearly marked throughout the system.

103

Ob Vln

Cl Vla

Bsn Vlc

Intonation adjustments: +12, +2, -2, -6, -4, -17, -2, -14, -33, -18, +12, +2, +10, -2, -4, -6

Intonation adjustments: +2, +14, +12, +8, -4, -4, -2, -14, -2, -6, -4, -16, -2, -14, -33, -18, -4, -16, -4, -16, -4, +10, -2, -14

Intonation adjustments: -14, -2, -4, -16, +4, +14, +2, +10, -2, -2, -14, -6, -18, +12, -4, -31, -2, -16

Detailed description: This system contains measures 103 through 108. The Ob Vln part features a prominent melodic line with several intonation adjustments. The Cl Vla part provides a dense harmonic texture with many notes. The Bsn Vlc part continues with its accompaniment, including a final intonation adjustment. The system concludes with a complex set of intonation adjustments for all parts.

109

Ob Vln

Cl Vla

Bsn Vlc

Measure 109: Ob Vln (+6, -6, -6, -10), Cl Vla (+8, -4, -6, -37), Bsn Vlc (-4, -10, -20).
Measure 110: Ob Vln (-10, -4, -8, -20, -20, -8, -2, -8), Cl Vla (+6, +8, -4, -4), Bsn Vlc (-6, -2, -20, -8).
Measure 111: Ob Vln (+12, +8, -6, -4), Cl Vla (+8, +14, +10, -2), Bsn Vlc (+8, +14, +12, +10).
Measure 112: Ob Vln (+14, +14, -4, -6, -18, -8), Cl Vla (+10, +10, -2, -2), Bsn Vlc (+10, +10, -2, -8).
Measure 113: Ob Vln (-4, -6, -18, -8), Cl Vla (+8), Bsn Vlc (-6, -2, -2, -8, -6, -18).

114

Ob Vln

Cl Vla

Bsn Vlc

Measure 114: Ob Vln (+10, +8, +6, +10), Cl Vla (+8, +12, +12, +10, +8), Bsn Vlc (+6, +12, +8, +8, +10).
Measure 115: Ob Vln (-4, -6, -2, -21, -18, -18), Cl Vla (-2, +10, +12, +25, +25, +14), Bsn Vlc (-6, -18, -4, -6, -2, -8).
Measure 116: Ob Vln (+12, +10, +10, +8, +25, +25, +10), Cl Vla (+10, +12, +25, +8, +8), Bsn Vlc (+12, +10, +14, +8, +10, +25, +6).
Measure 117: Ob Vln (-2, -4, -23, -4, +4), Cl Vla (-6, -18, -37, -4, +12), Bsn Vlc (-6, -2, -6, -2, +10, +25, +6).
Measure 118: Ob Vln (+4), Cl Vla (-10), Bsn Vlc (+10, +25, +6).

119

Ob Vln

Cl Vla

Bsn Vlc

Measure 119: Ob Vln (+8, +12, +18, +29, +14, +25, +8), Cl Vla (+10, +14, +2, +29, +12, +16), Bsn Vlc (+8, +25, +14, +10, +12, +8).
Measure 120: Ob Vln (-4, -23, -8, -4, -19, -4, -6), Cl Vla (-6, -21, -2, -6, -2, -20, -8, -23), Bsn Vlc (-6, -4, -6, -2, -4, -16, -8).
Measure 121: Ob Vln (+12, +12), Cl Vla (+14, +10, -4, -16, -2), Bsn Vlc (+12, +8, +7, +14, +15, +10).
Measure 122: Ob Vln (-4, -16, -2), Cl Vla (-1, -6, -18, +12), Bsn Vlc (-4, -22, -4, -2, -6).
Measure 123: Ob Vln (-4, -16, -8), Cl Vla (+12), Bsn Vlc (+15, +10, -2, -6).

124

Ob Vln

Cl Vla

Bsn Vlc

Intonation values for measures 124-127:

Measure	Ob Vln	Cl Vla	Bsn Vlc
124	+10, -2, -8, -4	-2, -6, -18	+10, -18, -4, -6, -8, -2
125	+10, +12	-6, -4, -8, -4	+10, +6, +2, -6, -2
126	-19, -4, -35	+18, +14, -17, -2, -33, -18, -37	+14, +16, -2, -6, -21, -37, -17
127	-20, -2, -6, -8, -10, -10, -4	+8, -4, -8, -20	-6, -10, +6, +3

128

Ob Vln

Cl Vla

Bsn Vlc

Intonation values for measures 128-132:

Measure	Ob Vln	Cl Vla	Bsn Vlc
128	+8, -8, -4, -10, +6, -6, +10	-8, -20, -8, -4	+8, -6, -8, +8, +12, +6, +10, +14
129	+10, +6, +12, +8, +23	+8, +10, +14, +22	+10, +14, +25, +8, +12, -8
130	+12, +10, +6	-4, -23, +10, +6	+10, +14, +25, +8, +12, -4
131	-6, -10, -23	+10, +6, -6	-6, -12, +10
132	+8, +4, +20	-6	-6, -12, +10

133

Ob Vln

Cl Vla

Bsn Vlc

Intonation values for measures 133-136:

Measure	Ob Vln	Cl Vla	Bsn Vlc
133	+8, +6, -6, -10, -4, -8, -10	+22, +10, +6, +8, +4	+6, +10, +22, +4, +8, +27, +8, +4, +10, +6
134	-10, -4, -8, -10	+6, +8, +4, -6, -10, -8, -20, -20	+8, +4, +10, +6, -8, -10, -4, -6, -10, -8
135	+8, +6, -4, -8	+3, +10, -2	-4, -6, -10, -8, +8, +8, +6, +14
136	-4, -8	-8, -2	-8, +8, +6, +14

153

Ob Vln

Cl Vla

Bsn Vlc

Intonation adjustments: +12, -2, -4, -4, -16, -2, -4, -16, -31, -2, -4, +12, +10, +14, +10, +12, +14, +2, +5, +14, +2

Detailed description: This system contains five measures of music for three instruments: Oboe/Violin (top), Clarinet/Viola (middle), and Bassoon/Viola (bottom). The Oboe/Violin part features a melodic line with various intervals and accidentals, with intonation adjustments (+12, -2, -4, -16, -31, +2, +14) placed above the notes. The Clarinet/Viola part consists of a few notes with intonation adjustments (+12, +10, +12) above them. The Bassoon/Viola part has a more active line with many notes and intonation adjustments (+14, +10, +10, +12, +14, +2, +5, +14, +2) placed above the notes. The bottom staff also contains numerical values (-4, -16, -2, -6, -6, -4, -4, -31, -16, -2, -16, -4) below the notes.

158

Ob Vln

Cl Vla

Bsn Vlc

Intonation adjustments: +2, +14, +12, +2, +12, +14, +10, +12, +12, +12, +12, +12

Detailed description: This system contains five measures of music for the same three instruments. The Oboe/Violin part has a melodic line with intonation adjustments (+2, +14, +12, +2, +12, +14, +10, +12, +12, +12) above the notes. The Clarinet/Viola part has a few notes with intonation adjustments (+2, +12, +12, +12, +12) above them. The Bassoon/Viola part has a few notes with intonation adjustments (+12, +14, +10, +12, +12, +12, +12) above them. The bottom staff contains numerical values (-14, -6, -4, -16, -4, -2, -6, -4, -16, -4, -2, -6, -4, -20, -8, -4, -6, -4, -20, -8, -4).

163

Ob Vln

Cl Vla

Bsn Vlc

Intonation adjustments: +8, +10, +10, +14, +14, +10, +10, +10, +10, +1, +12, +10, +12, +10, +8, +10

Detailed description: This system contains five measures of music for the same three instruments. The Oboe/Violin part has a melodic line with intonation adjustments (+8, +10, +10, +14, +14, +10, +10, +10, +10, +1, +12, +10, +12, +10, +8, +10) above the notes. The Clarinet/Viola part has a few notes with intonation adjustments (+14, +10, +14, +12, +10, +10, +10, +10) above them. The Bassoon/Viola part has a few notes with intonation adjustments (+8, +12, +10, +12, +10, +8, +10) above them. The bottom staff contains numerical values (-4, -8, -2, -19, -4, -19, -2, -6, -2, -6, -2, -6, -18, -4, -18, -6, -37, -22, -4, -8, -6, -2, -20, -8, -39, -2, -35, -6, -18).

169

Ob Vln

Cl Vla

Bsn Vlc

Intonation adjustments: +10, -2, -4, -16, -4, -2, -8, -8, -8, -2, -6, -6, -2, -17, -2, -33, -18, -4, -18, -6, -2, -16, +10, +12, +12, +10, -4, -22, -18, -6, -18, -6, -2, -2, -4, -6, -18, -33, -2, -4, -6, -6, -4, -16, -35, -20, -2, -14, -6

175

Ob Vln

Cl Vla

Bsn Vlc

Intonation adjustments: +10, -8, -2, -8, -6, -18, -6, -8, -4, -2, +12, +8, +10, +10, -16, -2, -4, -8, +20, -6, -8, +8, +12, +10, +10, -4, -2, -16, -4, -8, -8, -20, -23, -6, -20, -8, -4, +10, -18, -4, -6, -8, -2, -6, -10, +8

180

Ob Vln

Cl Vla

Bsn Vlc

un poco ritenuto

Intonation adjustments: +10, -2, -6, -19, -4, -16, -35, -20, -2, -4, -6, -8, +8, +10, +10, -8, -6, -18, -18, -6, -18, -4, -16, -2, -2, -6, -35, -35, -20, -4, -16, -8, -20, -2, -6, -33, -4, -18, -6, -8, -4, -6, +8