SVL 8-Bit Orchestral - chip house, electro and hip hop construction kits from vintage sound chips

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CONSTRUCTION KITS (8 bars each; one folder per kit with the Full mix, every stem and one MIDI file per stem)

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  Tempest     120 BPM  C minor    Kick, Snare, Hats, Perc, Cymbals, Bass, Chip Arpeggio, Horn Lead
  Overture    120 BPM  D minor    Kick, Snare, Hats, Perc, Bass, Chip Arpeggio, Violin
  Vigil       120 BPM  G minor    Kick, Snare, Hats, Bass, Chip Arpeggio, Pizz,
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Violin, Woodwind
  Citadel   120 BPM A minor   Kick, Snare, Hats, Cymbals, Bass, Chip Arpeggio, Staccato Runs, Horn Lead
  Mirebridge 125 BPM G# minor   Kick, Snare, Hats, Perc, Bass, Chip Arpeggio, Staccato Runs, Violin
  Masque   125 BPM A minor   Kick, Snare, Hats, Bass, Chip Arpeggio, Harp, Violin, Woodwind
  Valor   126 BPM E minor   Kick, Snare, Hats, Perc, Bass, Chip Arpeggio, Brass, Horn Lead
  Ironclad   126 BPM F minor   Kick, Snare, Hats, Bass, Chip Arpeggio, Brass, Violin
  Herald   126 BPM D minor   Kick, Snare, Hats, Cymbals, Bass, Chip Arpeggio, Violin
  Crusade   135 BPM B minor   Kick, Snare, Hats, Perc, Cymbals, Bass, Chip Arpeggio, Horn Lead
  Siege   135 BPM C minor   Kick, Snare, Hats, Cymbals, Bass, Chip Arpeggio, Staccato Runs, Woodwind
  Throne   140 BPM G minor   Kick, Snare, Hats, Perc, Bass, Chip Arpeggio, Brass, Horn Lead
  Wraith   140 BPM Bb minor   Kick, Snare, Hats, Bass, Chip Arpeggio, Pizz, Violin, Woodwind
  Ascend   144 BPM F minor   Kick, Snare, Hats, Perc, Cymbals, Bass, Chip Arpeggio, Staccato Runs, Horn Lead
  Rampart   144 BPM C# minor   Kick, Snare, Hats, Perc, Bass, Chip Arpeggio, Brass, Horn Lead
  Requiem   90 BPM G minor   Kick, Snare, Hats, Bass, Chip Arpeggio, Harp, Woodwind
  Lament   96 BPM E minor   Kick, Snare, Hats, Bass, Chip Arpeggio, Pizz, Violin
  Ember   98 BPM C# minor   Kick, Snare, Hats, Perc, Bass, Chip Arpeggio, Horn Lead
  Nocturne   100 BPM B minor   Kick, Snare, Hats, Perc, 808, Chip Arpeggio, Violin
  Cinder   105 BPM D minor   Kick, Snare, Hats, 808, Chip Arpeggio, Harp, Woodwind
  Phantom   108 BPM F minor   Kick, Snare, Hats, Timpani, Bass, Chip Arpeggio, Horn Lead
  Eclipse   112 BPM A minor   Kick, Snare, Hats, Timpani, Bass, Chip Arpeggio, Staccato Runs, Violin

Tempos: 90, 96, 98, 100, 105, 108, 112, 120, 125, 126, 135, 140, 144 BPM. Keys: A minor, B minor, Bb minor, C minor, C# minor, D minor, E minor, F minor, G minor, G# minor.

ONE-SHOTS (one folder per kind)
  Arp   9
  Bass   8
  Brass   9
  Choir   3
  Claps   3
  Cymbals   4
  Guitar   13
  Harp   6
  Hats   5
  Kicks   7
  Orchestral Hits 6
  Percussion   6
  Pizz   4
  Snares   5
  Strings   11
  Timpani   7
  Violin   3

THE SOUND
Every sound in this pack was played on models of two home-computer sound chips of the 1980s: a three-voice square-wave chip with a noise generator and a hardware envelope, and a two-voice console chip with polynomial noise and its own slightly out-of-tune pitch table. Leads, arpeggios, basses, stabs, plucks, runs and the drums are written the way tunes were written for those chips, register by register, the way the chips can really play them: whole-step volume changes, frame-rate vibrato, several chips layered for a section. Then every part went through a 12-bit sampler stage (26 kHz for drums, 40 kHz for the rest), as if it had been sampled into a late-80s drum machine. No filters, no reverb, no limiter were added on top.

FORMATS
- Audio: WAV, 24-bit, 44.1 kHz, stereo. True peak at or below -1.1 dBTP on every file.
- Kits: exactly 8 bars at the BPM in the file name, so they line up when the project tempo matches.
- Full = the finished kit, drums included. Stems = its parts at their level in the Full; the stems summed are the Full.
  Because nothing squashes the mix, the Fulls sit between -18 and -14 LUFS with their peaks intact; raise them as you like.
- MIDI: Standard MIDI File, tempo and 4/4 in the file, one file per stem (drums on the General MIDI note map: 36 kick,
  38 snare, 39 clap, 42 closed hat, 46 open hat, 45-48 toms, 49 crash, 57 cymbal swell, 82 shaker; timpani at pitch).
- measurements.csv / measurements.html: our measurement of every file (length, peak, true peak, loudness, decay).

NAMING
  SVL_8BitOrchestral_CK_<Kit>_<BPM>bpm_<Key>_8bars_<Part>.wav / .mid
  SVL_8BitOrchestral_<Sound>.wav

HOW TO USE
- Set the project tempo to the BPM in the name and drop a kit on a bar line (no warping needed).
- Mute, move or re-voice stems freely, or load the MIDI on your own instruments.
- The console chip's harp and pizzicato notes keep its real tuning (some notes sit 13-35 cents off): that is the sound of
  the chip; tune them in your sampler if you want them straight.
- Octave names differ between DAWs: Ableton and Logic call C4 "C3", FL Studio "C5" - same pitch.

SOURCES
All sounds were synthesized and arranged by SubverseLab from our own models of the chips. No samples, presets or recordings
of other people were used.

LICENCE
See LICENCE.txt. In short: use the sounds in your music and videos royalty-free; do not
share or resell the sounds themselves.

SubverseLab - subverselab.com