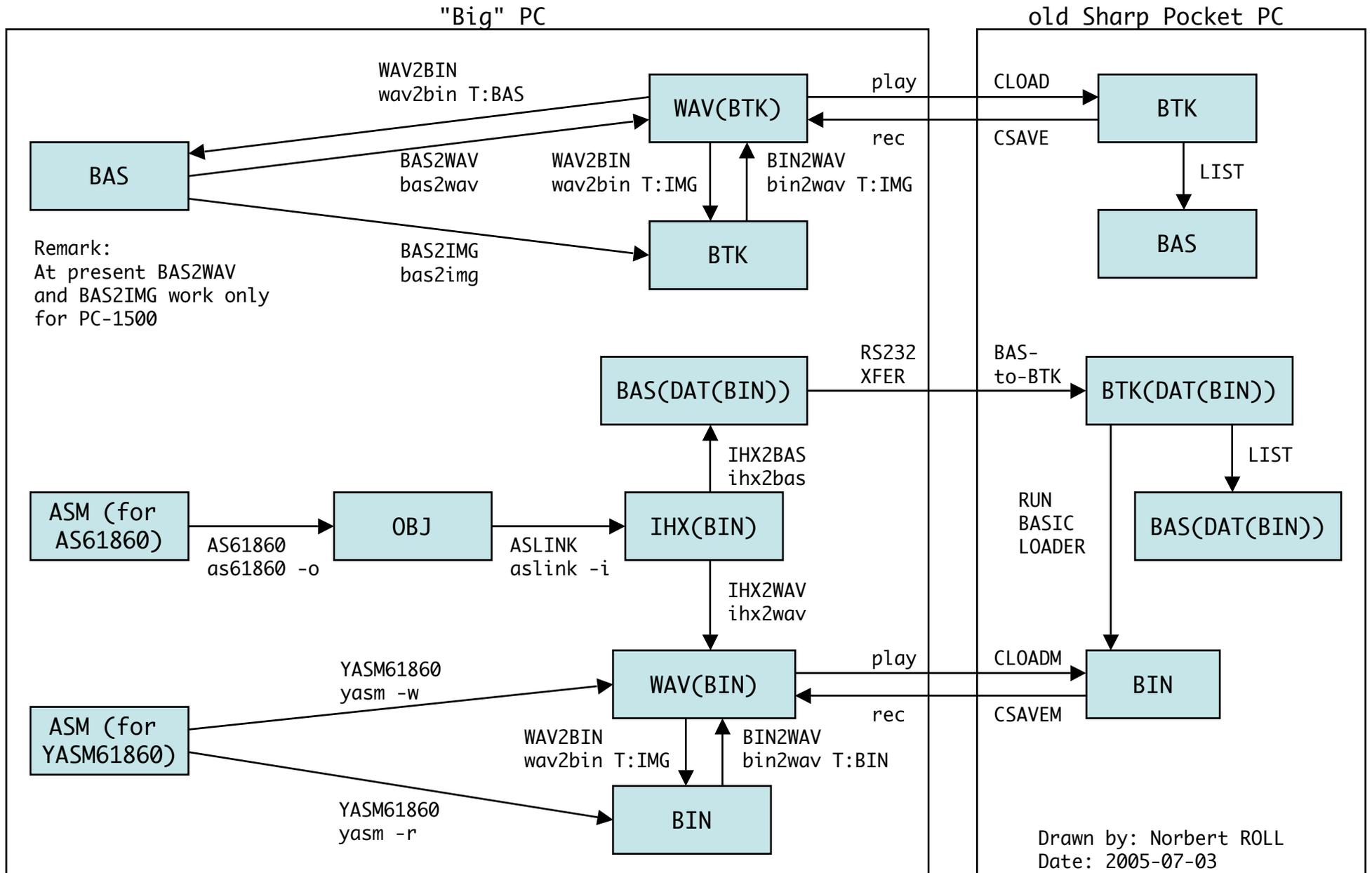


Sharp Pocket Computer Development Tool Chain



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Formats:

BAS = BASIC program, BASIC key words fully written out (ASCII only, e.g., "GOTO 60")
BTK = BASIC program, BASIC key words coded as tokens (ASCII and codes, e.g., &C6 "60"); also often called an IMG.
BIN = generally a block of bytes (can be a BASIC or machine language program or data)
DAT = DATA lines in a BASIC program as a way of storing data in a BASIC program
IHX = BIN in Intel Hex format, represents any data (mostly binary) in ASCII together with check and start information
WAV = a simple 8 bit sound code format, in connection with old Sharp Pocket PC used for the representation of a BIN or a BTK as a specific sound used for communicating via the cassette routines
ASM = machine language program written in ASCII (assembler text), has to be converted to the machine language codes of the chosen target processor (here: Sharp SC61860). This conversion is done by the so-called assembler. Different assembler for the same target processor may use different commands in the program text. E.g., for AS61860 and YASM61860 to produce the same BIN, the assembler text is different.
OBJ = intermediate format, output of the assembler and input of the linker

Remark: File extensions are not always equal to the format identifiers used above.

Utilities:

WAV2BIN = utility for conversion from WAV to BIN, BTK or BAS
BIN2WAV = utility for conversion from BIN or BTK to WAV
BAS2IMG = utility for conversion from BAS to BTK (PC-1500 only)
BAS2WAV = utility for conversion from BAS to WAV (PC-1500 only)
AS61860 = assembler for Sharp SC61860 processor (most old Sharp Pocket PC); output must be processed by ASLINK linker
ASLINK = linker for ASXXXX (generic), among others for AS61860; BIN output in Intel Hex format (and other formats)
YASM61860 = assembler (no linker needed) for Sharp SC61860 processor (most old Sharp Pocket PC)
IHX2WAV = utility for conversion from BIN in Intel Hex format to WAV
IHX2BAS = utility for conversion from BIN in Intel Hex format to BAS with BIN in DATA lines and BASIC loader for BIN
play and **rec** = playback and record using Sharp audio cassette interface and e.g. Audacity sound editor (1.2.3; Win, Mac, Linux) from <http://audacity.sourceforge.net/>
RS232 XFER = Transfer of BAS from big PC to Pocket PC using the serial (RS232) interface (if available)
BAS-to-BTK = Automatic conversion from BAS to BTK by Pocket PC performed during transfer (RS232 or keyboard) of a BAS into the Pocket PC
LIST = Built-in command for viewing BASIC program text (automatic conversion from BTK to BAS for display)
RUN BASIC LOADER = Small BASIC program storing data from BASIC DATA lines into the memory, mostly used to make a machine language program ready to run

References:

WAV2BIN (1.33 PC, 1.34 MacOSX, C sources available) and **BIN2WAV** (1.30 PC, 1.31 MacOSX, C sources available) by Jean-Francois LAROCHE from <http://pocket.free.fr/index.html>: software (Pocket Computer Museum)
BAS2IMG (4.00 PC, executable only) and **BAS2WAV** (5.3 PC, executable only) by Joachim BOHS from <http://pocket.free.fr/index.html>: software (Pocket Computer Museum)
YASM61860 (1.01, Perl script) by Hiroyuki KOBAYASHI (Yagshi) from <http://www.ohshe.bs.teu.ac.jp/~yagshi/pocketcom/yasm-e.html>
AS61860 (4.00, C sources) by Alan R. BALDWIN (generic ASXXXX) and Edgar PUEHRINGER (AS61860) from <http://shop-pdp.kent.edu/ashtml/asxget.htm> (SHOP-PDP.KENT.EDU)
ASLINK (4.00, C sources) by Alan R. BALDWIN from <http://shop-pdp.kent.edu/ashtml/asxget.htm> (SHOP-PDP.KENT.EDU)
IHX2WAV and **IHX2BAS** (both 2003-04-17/2004-10-16, C sources available) by Edgar PUEHRINGER from http://www.geocities.com/edgar_pue/sharp/index.html: File Archive: bigpc: ihxconv-0.8.1.tgz = <http://www.geocities.com/SiliconValley/Byte/3964/sharp/filesbigpc.html>: ihxconv-0.8.1.tgz (SharpCalc Pocket Computer Resources)