1 Bytecode Abstract Syntax

$$b \ ::= \ v \ P \ \overline{i} \ \overline{M} \qquad \qquad bytecodefile \qquad \qquad \begin{vmatrix} d \ ::= \ val \ f : \tau = e \\ var \ f : \tau = e \\ l \ def \ m(\overline{x} : \tau) : \tau = e \\ l \ type \ L = T \ [\delta] \end{vmatrix}$$

$$v \ ::= \ magic \ major.minor \qquad magic+version \ number \qquad \qquad T \ ::= \ c \qquad type \ desc.$$

$$P \ ::= \ fully \ qualified \ path \qquad path \ to \ module \qquad \qquad | \ extag \ c \\ l \ datatag \ \overline{p.L} \ c \qquad | \ extends \ p.L \ \tau \qquad | \ extends \ p.L \ r \qquad | \ extends \ p$$

Notation: overbar means a list of elements, as in Java