just to e erate the verificatio co litito s a lit type check the proof a ai st

the bytecoite specificatio la ua e BCSL a it the JML compiler; Sectio 4 tiscusses the mai features of the meakest preco ititio calculusectio5 co ititio s foJML a o-

theorem prover

The producer also tra sforms the source proofs i to bytecode proofs. This tra sformatio is based to the observatio, that proof obli atios o the source code a decooptimized bytecode respectively are sy tactically the same modulo ames a decoaptimized bytecode.

The producer telivers to the clie t the class files alo in the transformed proofs.

To impleme t this architecture we use JECK [4] as a verificatio cotitio e erator both o the co sumer a to the producer site. J

```
public class ListArram {
Object[_ list;requires list != null@nsures \result == (\exists int i; 0 <= i</pre>
```

- source li ea the bytecome of a method. The Lucal_Variable _Jahl tescribes the local variables that appear i a method. Those attributes are important for the ext phase of the JML compilatio.
- 2. from the source file a to the resultic class file compile the JML specificatio. I this phase, Jar a to JML source into tifiers are like to mith their into tifiers o bytecome level, amely with the corresponding into the control of the array of local variables described in the Lucal-Variable stabute. If it the JML

\result

the Company of The time time the stake teleptorism of the control of the control

backett es i a metholt's bytecolte which ca be itte tifielt usi sta ttartt tech iques ([1]).

Despite those chases, the source at bytecoite oal respectively (which are actually the postco titio) os bytecoite at source level are of oly

the Jack 1.8 release⁴. 🗖 t this step, me have built a framemork for Java pro-