

## Tiger Language Specification: Updates

### Updates

09/30/2014

1. In **Reserved (key) words**, id is removed
2. In **Grammar**,
  - (1) Rule  $\langle \text{type} \rangle \rightarrow \text{array}[\text{INTLIT}] \text{ of } \langle \text{base-type} \rangle$  is changed to  $\langle \text{type} \rangle \rightarrow \text{array} [\text{INTLIT}] \text{ of } \langle \text{base-type} \rangle$
  - (2) Rule  $\langle \text{stat} \rangle \rightarrow \langle \text{block-list} \rangle$ ; is changed to  $\langle \text{stat} \rangle \rightarrow \langle \text{block-list} \rangle$

10/02/2014

1. In **Grammar**,
  - (1) Rule  $\langle \text{stat} \rangle \rightarrow \langle \text{block-list} \rangle$  is changed to  $\langle \text{stat} \rangle \rightarrow \langle \text{block} \rangle$

### **Sample Tiger Programs (Scalar Dot Product)**

```
void main()
begin
  begin
    type ArrayInt = array [100] of int;
    var X, Y : ArrayInt := 10;
    var i, sum : int := 0;
    begin
      for i := 1 to 100 do
        sum := sum + X[i] * Y[i]
      enddo;
      printi(sum);
    end;
  end;
end;
```