

C2110 *UNIX and programming*

Lesson 12

PS / 2020 Distance form of teaching: Rev2

Petr Kulhanek

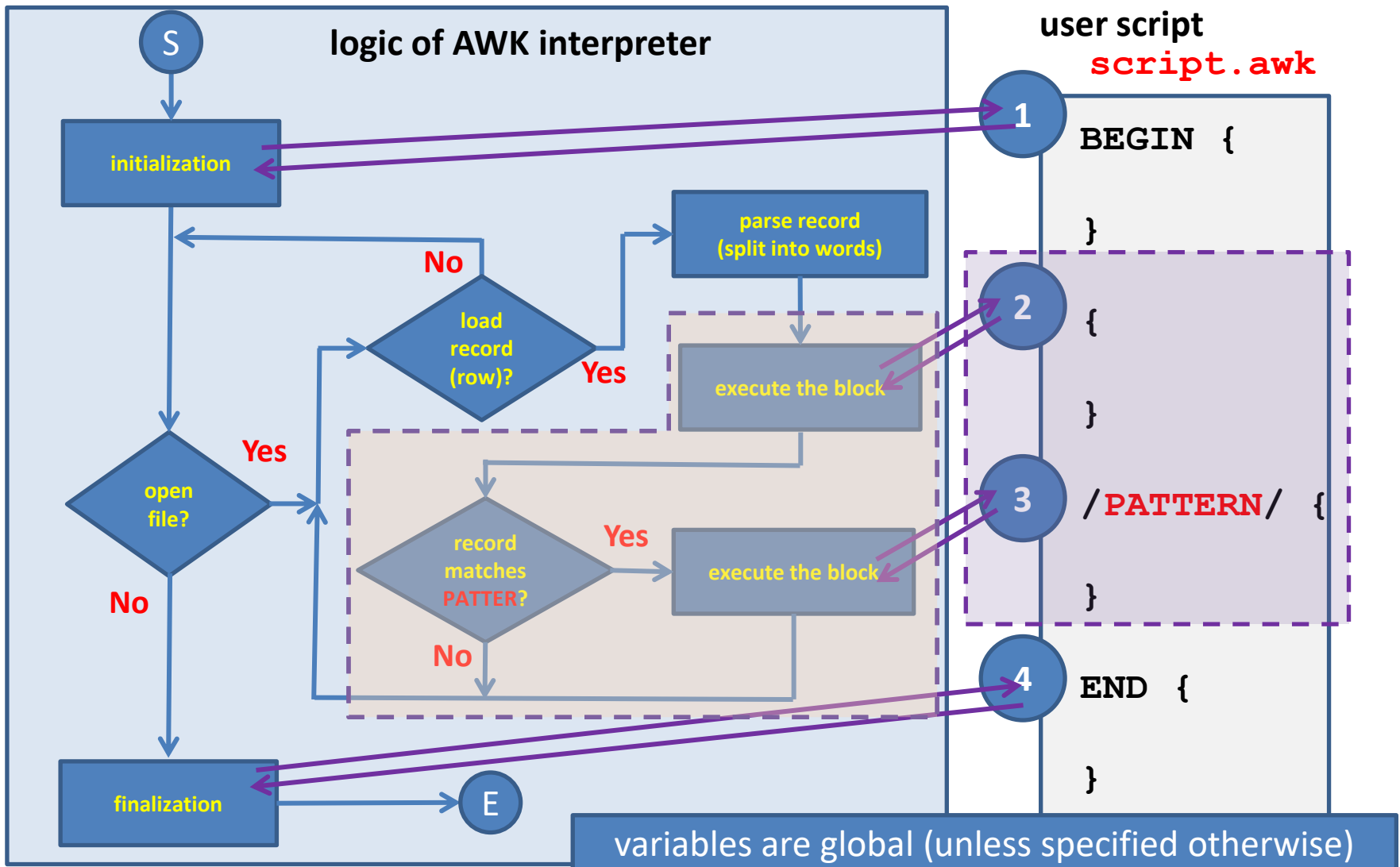
kulhanek@chemi.muni.cz

National Center for Biomolecular Research, Faculty of Science
Masaryk University, Kamenice 5, CZ-62500 Brno

Summary L10

➤ **AWK**

The process of executing the script



Starting AWK scripts

Text file processing:

Indirect start:

result is printed on the screen

```
$ awk -f script.awk input1.txt input2.txt
```



Analyzed data can be sent via standard input:

```
$ awk -f script.awk < vstup.txt
```

```
$ cat subor.txt | awk -f script.awk
```

Variables

Assignment to a variable:

```
A = 10;  
B = "this is a text "  
C = 10.4567;  
D = A + C;
```

Variable value:

```
print A + C;  
print B;
```

Special variables:

NF	number of fields in the current record (Number of Fields)
NR	order of processed record (Number of Records)
\$0	whole record
\$1, \$2, \$3 ...	individual record fields

character **\$** allows programmatic access to individual fields of the record

Example:

```
for(i=1; i < NF; i++){  
    sum += $i;  
}
```

Next Subject

➤ **AWK**

➤ AWK

- **Conditions, logical operations**
- **Run control (next, exit)**
- **Loops**
- **Arrays**