

????? Caché ???? ^\$LOCK ??

```
WRITE !,"lock owner: ",^$LOCK("^B(1,1)","OWNER")
WRITE !,"lock flags: ",^$LOCK("^B(1,1)","FLAGS")
WRITE !,"lock mode: ",^$LOCK("^B(1,1)","MODE")
WRITE !,"lock counts: "
ZZDUMP ^$LOCK("^B(1,1)","COUNTS")
LOCK ^B(1,1) ; delete lock
}
```

```
DHC-APP>d ##class(PHA.TEST.SpecialVariables).LOCK()
```

```
lock owner: 17824
lock flags:
lock mode: X
lock counts:
0000: 0B 01 04 04 A0 45 03 04 01 02 01          ....??E.....
```

????????????????info_type "COUNTS"??????????

```
/// d ##class(PHA.TEST.SpecialVariables).LOCK1()
ClassMethod LOCK1()
{
    LOCK ^B(1,1) ; define exclusive lock
    ZZDUMP ^$LOCK("^B(1,1)","COUNTS")
    LOCK ^B(1,1) ; increment lock
    ZZDUMP ^$LOCK("^B(1,1)","COUNTS")
    LOCK ^B(1,1) ; increment lock again
    ZZDUMP ^$LOCK("^B(1,1)","COUNTS")
    LOCK ^B(1,1) ; decrement lock
    ZZDUMP ^$LOCK("^B(1,1)","COUNTS")
    LOCK ^B(1,1) ; decrement lock again
    ZZDUMP ^$LOCK("^B(1,1)","COUNTS")
    LOCK ^B(1,1) ; delete exclusive lock
}
```

```
DHC-APP>d ##class(PHA.TEST.SpecialVariables).LOCK1()
```

```
0000: 0B 01 04 04 A0 45 03 04 01 02 01          ....??E.....
0000: 0B 01 04 04 A0 45 03 04 02 02 01          ....??E.....
0000: 0B 01 04 04 A0 45 03 04 03 02 01          ....??E.....
0000: 0B 01 04 04 A0 45 03 04 02 02 01          ....??E.....
0000: 0B 01 04 04 A0 45 03 04 01 02 01          ....??E.....
```

????????????????info_type "COUNTS"??????????

```
/// d ##class(PHA.TEST.SpecialVariables).LOCK2()
ClassMethod LOCK2()
{
    LOCK ^S(1,1)#"S" ; define shared lock
    ZZDUMP ^$LOCK("^S(1,1)","COUNTS")
    LOCK ^S(1,1)#"S" ; increment lock
    ZZDUMP ^$LOCK("^S(1,1)","COUNTS")
    LOCK ^S(1,1)#"S" ; increment lock again
}
```

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```
ZZDUMP ^$LOCK("^S(1,1)","COUNTS")
LOCK -^S(1,1)#"S" ; decrement lock
ZZDUMP ^$LOCK("^S(1,1)","COUNTS")
LOCK -^S(1,1)#"S" ; decrement lock again
ZZDUMP ^$LOCK("^S(1,1)","COUNTS")
LOCK -^S(1,1)#"S" ; delete shared lock
}
```

```
DHC-APP>d ##class(PHA.TEST.SpecialVariables).LOCK2()
```

```
0000: 0B 01 04 04 A0 45 02 01 03 04 01      ....??E.....
0000: 0B 01 04 04 A0 45 02 01 03 04 02      ....??E.....
0000: 0B 01 04 04 A0 45 02 01 03 04 03      ....??E.....
0000: 0B 01 04 04 A0 45 02 01 03 04 02      ....??E.....
0000: 0B 01 04 04 A0 45 02 01 03 04 01      ....??E.....
```

????????^\$lock??\$DATA?\$ORDER?\$QUERY??????

??\$DATA???

```
$DATA(^$|nspace|LOCK(lock_name))
```

```
^$lock??$DATA????????????????????????????????????^$lock??????$DATA??????????
Value
```

0

10

????????????????\$DATA????0?10???10????????????????????????????????????1?11?

????????????????????????????????????10(????)????????0(????)?

```
/// d ##class(PHA.TEST.SpecialVariables).LOCK3()
ClassMethod LOCK3()
{
    LOCK ^B(1,2) ; define lock
    WRITE !,$DATA(^$LOCK("^B(1,2)"))
    LOCK -^B(1,2) ; delete lock
    WRITE !,$DATA(^$LOCK("^B(1,2)"))
}
```

```
DHC-APP>d ##class(PHA.TEST.SpecialVariables).LOCK3()
```

10
0

??\$ORDER???

\$ORDER(^\$|nspace|LOCK(lock_name),direction)

^\$lock??\$ORDER????????????????????^\$lock????????????????????^\$lock??\$ORDER??????????

??

Direction??InterSystems IRIS????????????????????????????

??????Samples????????????????????????????????locket??????????

```
/// d ##class(PHA.TEST.SpecialVariables).LOCK4()
ClassMethod LOCK4()
{
LOCKARRAY
  SET lname=""
  FOR I=1:1 {
  SET lname=$ORDER(^$|"SAMPLES"|LOCK(lname))
  QUIT:lname=""
  SET LOCKET(I)=lname
  WRITE !,"the lock name is: ",lname
  }
  WRITE !,"All lock names listed"
  QUIT
}
```

DHC-APP>d ##class(PHA.TEST.SpecialVariables).LOCK4()

the lock name is: ^%SYS("CSP","Daemon")
All lock names listed

??\$QUERY???

\$QUERY(^\$|nspace|LOCK(lock_name))

^\$lock??\$query??^\$lock??????\$query??????????

??

????????????????????(?????)??????????????

```
/// d ##class(PHA.TEST.SpecialVariables).LOCK5()
ClassMethod LOCK5()
{
  LOCK (^B(1),^A,^D,^A(1,2,3),^A(1,2))
  WRITE !,"lock name: ",$QUERY(^$LOCK(""))
  WRITE !,"lock name: ",$QUERY(^$LOCK("^C"))
  WRITE !,"lock name: ",$QUERY(^$LOCK("^A(1,2)"))
}
```

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```
DHC-APP>d ##class(PHA.TEST.SpecialVariables).LOCK5()
```

```
lock name: ^$LOCK( "^%SYS( "CSP" , "Daemon" )" )  
lock name: ^$LOCK( "^D" )  
lock name: ^$LOCK( "^A(1,2,3)" )
```

```
$QUERY????????(????????)????????????????????????????$QUERY(^$LOCK(""))????????????????^$LOCK("^A")?????  
????????InterSystems IRIS????$QUERY(^$LOCK("^C"))????????????^C?^$LOCK("^D")????????$QUERY(^$LO  
CK("^A(1?2)"))????????????^$LOCK("^A(1?2?3)")?
```

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