

# Changement de contexte

Florent Gluck

Version 0.8

# Changement de contexte

```
void *T1(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T2(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T3(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
        sleep(1);  
    }  
    return NULL;  
}
```



IP courant



IP sauvegardé

	Prêt	Actif	Bloqué
T1		X	
T2	X		
T3	X		

T1

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Préemption de T2 par T3

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Ordonnanceur active T1

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IP courant



IP sauvegardé

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Préemption de T1 par T2



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Préemption de T2 par T1

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void *T2(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T3(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
        sleep(1);  
    }  
    return NULL;  
}
```



IP courant



IP sauvegardé

	Prêt	Actif	Bloqué
T1		X	
T2	X		
T3			X

T1

# Changement de contexte

```
void *T1(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```



```
void *T2(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```



```
void *T3(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
        sleep(1);  
    }  
    return NULL;  
}
```



IP courant



IP sauvegardé

	Prêt	Actif	Bloqué
T1		X	
T2	X		
T3			X

T1

# Changement de contexte

```
void *T1(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T2(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T3(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
        sleep(1);  
    }  
    return NULL;  
}
```



IP courant



IP sauvegardé

	Prêt	Actif	Bloqué
T1		X	
T2	X		
T3			X

1 seconde s'est écoulée

# Changement de contexte

```
void *T1(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T2(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T3(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
        sleep(1);  
    }  
    return NULL;  
}
```



IP courant



IP sauvegardé

	Prêt	Actif	Bloqué
T1		X	
T2	X		
T3			X

Préemption de T1 par T3

# Changement de contexte

```
void *T1(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T2(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T3(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
        sleep(1);  
    }  
    return NULL;  
}
```



IP courant



IP sauvegardé

	Prêt	Actif	Bloqué
T1	X		
T2	X		
T3		X	

T3

# Changement de contexte

```
void *T1(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T2(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T3(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
        sleep(1);  
    }  
    return NULL;  
}
```



IP courant



IP sauvegardé

	Prêt	Actif	Bloqué
T1	X		
T2	X		
T3		X	

T3

# Changement de contexte

```
void *T1(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T2(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

```
void *T3(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
        sleep(1);  
    }  
    return NULL;  
}
```



IP courant





IP sauvegardé

	Prêt	Actif	Bloqué
T1	X		
T2	X		
T3		X	

T3

# Changement de contexte

```
void *T1(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

 IP courant  
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```
void *T2(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
    }  
    return NULL;  
}
```

Etc.

	Prêt	Actif	Bloqué
T1	X		
T2	X		
T3		X	

```
void *T3(void *arg) {  
    int i = 0;  
    while (i < 100) {  
        i = i + 1;  
        sleep(1);  
    }  
    return NULL;  
}
```

T3