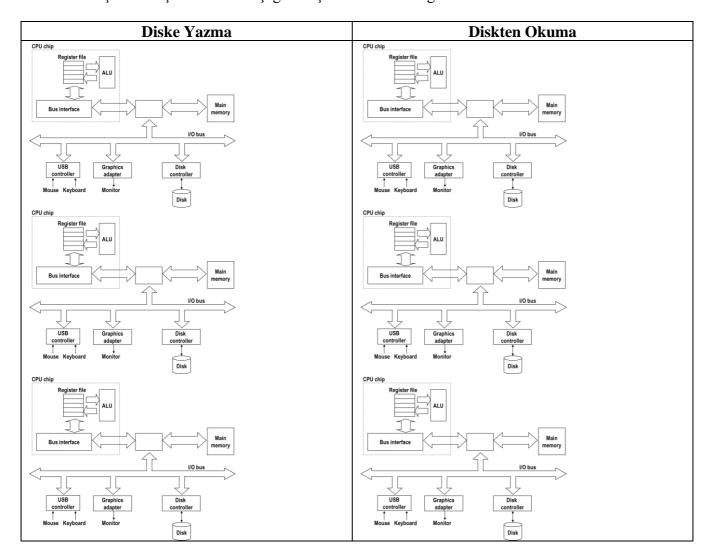
Hacettepe Üniversitesi Bilgisayar Mühendisliği Bölümü BBM341 Sistem Programlama 2. Ara sınav – 24 Aralık 2014

Soru 1. Doğrudan bellek erişim (DMA: *Direct Memory Access*) yöntemini kullanarak bir disk sektörünün erişimine ilişkin adımları aşağıdaki şekiller üzerinde gösteriniz.



Soru 2. *Zamansal Yerellik* (*Temporal Locality*) kavramı aşağıdaki kod kesiminde hangi verilere erişim için söz konusudur, bir/iki cümle ile açıklayınız.

```
sum = 0;
for (i = 0; i < n; i++)
    a[i]= b[i] + c[i];
return sum;</pre>
```

ru 4. %99 "hit" oranıyla yapılan veri erişimleri %91 oranıyla yapılanlara göre kaç kat daha iyidir! bellekten erişim zamanını 1 birim, ana bellekten erişim zamanını 100 birim alınız. ru 5. Aşağıda verilen iki kod kesimi derlenip (compile) bağlandığında (link) ne sonuç elde edilir? p1. c p2. c int deg; p1() { } p1() { } ru 6. Bağlayıcı (Linker) birden fazla dosyayı biraraya getirip hedef dosyayı oluştururken dosy arasındaki referansları çözmede nasıl bir veri yapısı kullanır. Açıklayınız.	·	<pre>bir/iki cümle ile açıklayınız. sum = 0; for (i = 0; i < n; i</pre>		
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	o ru 6. Bağlayıcı (Li	p1() { }	p1() { }	o olustururken dosy
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Soru 7. Kod içindeki soruları yanıtlayınız.

<pre>/* a) Aşağıdaki satırda ne yapılmaktadır? */ addvec = dlsym(handle, "addvec"); if ((error = dlerror()) != NULL) { fprintf(stderr, "%s\n", error); exit(1); }</pre>
<pre>/* b) Aşağıdaki satırda ne yapılmaktadır? */ addvec(x, y, z, 2); printf("z = [%d %d]\n", z[0], z[1]);</pre>
<pre>/* c) Aşağıdaki satırda ne yapılmaktadır? */ if (dlclose(handle) < 0) { fprintf(stderr, "%s\n", dlerror()); exit(1); } return 0;</pre>
}

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Soru 8. Kod içindeki soruyu yanıtlayınız.

```
void fork11()
{
    pid_t pid[N];
    int i;
    int child_status;
    for (i = 0; i < N; i++)
        if ((pid[i] = fork()) == 0)
            exit(100+i);
    for (i = N-1; i >= 0; i--) {
            /* Aşağıdaki satırda ne yapılmaktadır? */
            pid_t wpid = waitpid(pid[i], &child_status, 0);
            if (WIFEXITED(child_status))
                printf(" Falan filan %d\n");
            else
                printf(" Yine falan filan %d\n");
        }
}
```

Soru 9. Aşağıdaki kod kesimi uygulandığında çıktısı ne olur?

```
void fork4()
{
    printf("Falan \n");
    if (fork() != 0) {
        printf("Filan\n");
        if (fork() != 0) {
            printf("Yalan\n");
            fork();
        }
    }
    printf("Görüşürüz.\n");
}
```

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Soru 10. Aşağıdaki kod kesimi kapsamında P1() çağırıldığında çağırıldığında sonuç ne olur?

```
jmp_buf env;
P1()
{
    P2(); P3();
}
P2()
{
    if (setjmp(env)) {
       printf("Falan Filan \n");
    }
}
P3()
{
    longjmp(env, 1);
}
```

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