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-- Ada program example to download a picture from the web

-- Caution.
--
-- This is a demonstration how to use the adasocket library
--
-- Because I am not very font in http protocole, it is possible you expect some trouble
-- with another web server.
--
-- Note:
-- I suppose that the 8th paquet send by the server contains the image size.
-- I am not sure it is always true.
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with Sockets, Text_Io, Sequential_IO;
use Text_Io, Sockets;

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procedure UTILISE is

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    Sock          : Sockets.Socket_FD;
    Port          : Positive:=80;
    Un_Fichier   : File_Type;

```

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    package P_FICHER_CODE is new Sequential_IO (character);
    use P_FICHER_CODE;
    UN_FICHER2 : P_FICHER_CODE.File_Type;

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    package P_Mes_Entiers is new Integer_io(Integer);
    use P_Mes_Entiers;

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    Somme : natural;
    Taille : natural;

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```

begin

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    Sockets.Socket (Sock, AF_INET, SOCK_STREAM);

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    -- connection au serveur HTTP

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    Connect (Sock, "www.kde.org", Port);

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    -- envoie d'une requete

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    Put_Line(Sock, "GET /media/images/kde_logo.jpg HTTP/2.0");

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    Put_Line(Sock, "Host: www.kde.org");

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    Put_Line(Sock, "Accept: jpeg, pictures/gif, pics/jpg, pics/gif, image/x-xbitmap,
pics/jpeg, image/pjpeg, image/png, */*");

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    Put_Line(Sock, "");

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    create (UN_FICHER2, Out_File, "c:\rapatrie.jpg");

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    loop

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```

        declare

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            BufferL1 : String := Sockets.Get_line (Sock);

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        begin

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            put_line("");

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            Put_Line(Bufferl1);

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            if (Bufferl1'Length>15) then

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                if (Bufferl1 (1..15)="Content-Length:") then

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```

                    declare

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        Chaine : String := Bufferl1 (17..Bufferl1'last);
    begin
        Taille := Integer'Value(Chaine );
        put("taille "); put(taille); New_Line;
    end;
end if;
end if;
exit when Bufferl1'length=0;
end;
end loop;

Somme := 0;

loop
begin
    declare
        Buffer : String := Sockets.Get (Sock);
        longueur : positive;
    begin
        Put("We received "); Put(Buffer'length); Put(" octects"); New_Line;
        Somme :=Somme + Buffer'length;
        for i in 1.. Buffer'length loop
            write(Un_Fichier2,Buffer(i));
        end loop;
    end;
    exit when Somme=Taille;
exception
    when others => put("Error during download...");
end;
end loop;

close(UN_FICHIER2);
shutdown(Sock);

Put_line("Connection closed");
Put("Total number of octects received : "); Put(Somme); New_Line;

end UTILISE ;

```